CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, August 25, 1904.

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PERSONAL.

Mr. Levi Hege is stated to have resigned his position as City Engineer of Columbus, Ind.

Mr. George H. Hart has resigned his position as Superintendent of Water-Works of Maynard, Mass.

Mr. J. S. Stone, C. E., Cornell, '89, has been transferred from the Chicago office of the American Bridge Co. to their Toledo office.

Mr. H. Hawgood has resigned as Chief Engineer of the San Pedro, Los Angeles & Salt Lake R. R. C., to take the position of Consulting Engineer for that road.

Mr. George H. Felix has been elected General Manager of the Municipal Water-Works of Reading, Pa. Previous to this appointment Mr. Felix was President of the Board of Water Commissioners.

Mr. J. C. McClure has been appointed Engineer of Maintenance-of-Way of the Maricopa & Phoenix & Salt River Valley R. R., and the Gila Valley, Globe & Northern Ry., with headquarters at Tucson, Ariz.

Mr. Guy P. Felton, who resigned the position of Superintendent of the electric light plant and water-works of Moultrie, Ga., to accept a similar place at Blakely, has been succeeded by M. A. Barr, of Columbus, Ga.

Professor William G. Raymond, M. Am. Soc. C. E., of Rensselaer Polytechnic Institute, of Troy, N. Y., has been asked to assume charge of the Engineering Department of the Iowa State University, and it is understood that he has accepted the position.

Mr. Thomas Milan, Superintendent Motive Power of the National R. R. of Mexico, with headquarters at Laredo, Tex., has been elected President of the Vera Cruz & Pacific Ry. Co., to succeed R. B. Pegram, who resigned because of ill health.

Mr. William Barclay Parsons, Consulting Engineer of the Rapid Transit Commission, who has been in England for several months in the service of the company which is building the underground railroad in London, returned to this country last week.

Mr. Ralph Inslee, a young engineer and graduate of Cornell University, employed by F. D. Hyde & Co., who are conducting the track elevation and depression work for the Lackawanna R. R. in Summit, N. J., was severely injured Aug. 20, by being struck by a large iron bucket, which was being lowered into the excavation where he was standing.

Mr. Gratz B. Strickler, Assoc. M. Am. Soc. C. E., Superintendent of Construction of U. S. Public Buildings, has been assigned to Baltimore, Md., to supervise the construction of the new Customs House at that place. Mr. Strickler, previous to this assignment, was in charge of the erection of U. S. buildings at the Louisiana Purchase Exposition at St. Louis, Mo.

Mr. Charles Algernon Parsons, the English inventor, who developed the steam-turbine, and made it suitable for the generation of electricity and propulsion of vessels, at a recent meeting of the British Association for the Advancement of Science was presented with a gold medal in behalf of the Associated German Engineers, as a recognition of the merits of his invention.

OBITUARY.

John W. Madore, President of the Hyndman Water Co., of Hyndman, Pa., died in that place Aug. 18, aged 61 years.

Frank Cullen, of Cullen Bros., cement contractors, of Peoria, Ill., died at his home in that city Aug. 14, aged 37 years.

Arthur Headley, senior member of the contracting firm of Headley & Christie, died recently at his home, 116 Ridgewood Ave., Newark, N. J. He was 46 years old.

John Murphy, a Government surveyor on roadwork in the Yellowstone National Park, was killed by a fall from a high precipice, Aug. 11, while working near Livingston, Mont.

John Lowbar Welsh, formerly President of the Philadelphia Traction Co., and the Union Traction Co., of Philadelphia, died at his country home at Whitemarsh, Pa., Aug. 22. He was 62 years old.

General Charles Fitzsimmons, a well-known contracting engineer and Civil War officer, died at his home in Chicago, Ill., Aug. 20, from a complication of diseases following a fall sustained some time ago. General Fitzsimmons was formerly of Rochester, N. Y., and he served with the New York State troops in the Civil War.

John Ruggles Slack, until recently Superintendent of Motive Power, Delaware & Hudson R. R., died of tubercular meningitis in New York City, Aug. 1, aged 41 years. Mr. Slack attended Columbia College and graduated from Stevens Institute in 1886. He was with the New York Central & Hudson River R. R., in the Motive Power Department, until 1888, when he was appointed Mechanical Engineer, Central R. R. of New Jersey. In July, 1899, he was made Assistant Superintendent of Motive Power of the Delaware & Hudson, and in January, 1902, was appointed Superintendent of Motive Power. At the time of his death, Mr. Slack occupied the position of Assistant to the General Superintendent.

Joannes Williem Post, at one time Engineer-in-Chief of Maintenance-of-Way of the Netherlands State Railways, and inventor of the extensively used "Post" steel tie, died in Amsterdam, Holland, July 26, at the age of 49. Mr. Post was a recognized authority in matters relating to track construction and maintenance, and had written a number of papers on these subjects for various railway and engineering associations. His steel tie is used in several countries, and in 1894 he reported that about 1,500,000 were in service. From 1890 until about 1896 he was Chief Engineer of the Netherlands East-Indian Railways in Java and Sumatra, and since then he had been engaged in professional work in Holland, his home being at Utrecht.

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ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN PUBLIC WORKS ASSOCIATION.
Aug. 26, 1904. Meeting for organization, at Gulfport, Miss.
SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
Sept. 1, 2, 3, 1904. Annual meeting at St. Louis, Mo. Secy., C. A. Waldo, Lafayette, Ind.
SOCIETY OF CHEMICAL INDUSTRY.
Sept. 7 to 12, 1904. Annual meeting at New York, N. Y. Gen'l Secy., C. G. Cresswell, 9 Bridge St., Westminster, London. Secy. New York Section, T. J. Parker, 25 Broad St., New York.
INTERNATIONAL ELECTRICAL CONGRESS.
Sept. 12 to 16. At St. Louis, Mo. Secy., A. E. Kennelly, Harvard University, Cambridge, Mass.
RAILWAY SIGNAL ASSOCIATION.
Sept. 13, 1904. Quarterly meeting at Chicago, Ill. (Great Northern Hotel). Secy., B. B. Adams, 83 Fulton St., New York.
ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 13, 14, 15. Annual meeting at St. Louis, Mo. Secy., C. E. Jones, Beardstown, Ill.
NEW ENGLAND WATER-WORKS ASSOCIATION.
Sept. 14, 15, 16, 1904. Annual convention at Holyoke, Mass. Secy., Willard Kent, Narragansett Pier, R. I.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
INSTITUTION OF ELECTRICAL ENGINEERS. (Great Britain.)
Sept. 14, 1904. Joint convention at St. Louis, Mo. Secy. Am. Inst. Elec. E., R. W. Pope, 95 Liberty St., New York.
AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 14 to 21. Annual convention at Duluth, Minn., and Houghton, Mich. Secy., R. W. Raymond, 99 John St., New York.
INTERNATIONAL ENGINEERING CONGRESS.
Oct. 3 to 8, 1904. Held at St. Louis, Mo., under the auspices of the American Society of Civil Engineers. Secy., Chas. Warren Hunt, 220 W. 57th St., New York.
AMERICAN BOILER MANUFACTURERS' ASSOCIATION.
Oct. 4, 5, 6, 1904. Annual convention at St. Louis, Mo. Secy., J. D. Farasey, Forest St. and Erie Ry., Cleveland, O.
AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 4, 5, 6, 1904. Annual meeting at St. Louis, Mo. Secy., G. W. Tillson, Municipal Building, Brooklyn, N. Y.
AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANTS' ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.
RAILWAY SIGNAL ASSOCIATION.
Oct. 11, St. Louis, Mo. Secy., B. B. Adams, 83 Fulton St., New York.
ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago. Secy., S. F. Patterson, Concord, N. H.
AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.
IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.
AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6, 1904. Annual meeting at New York City. Secy., F. R. Hutton, 12 West 31st St., New York.
AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

PACIFIC COAST RAILWAY CLUB.—The first meeting of the club after the summer recess will be held on Sept. 17, 1904, the August meeting having been dropped. At the September meeting Mr. F. K. Ainsworth, Chief Surgeon of the Southern Pacific Co., will present a paper. Secy., C. C. Borton, West Oakland, Cal.

NATIONAL IRRIGATION CONGRESS.—The twelfth national irrigation congress will be held at El Paso, Texas, on Nov. 15 to 18, 1904. The call for the congress was issued a few days ago by C. B. Boothe, Chairman of the executive committee which has in charge the arrangements. A special attempt will be made in this congress to give adequate consideration to irrigation in the Atlantic States.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—The 36th annual convention will open in the Hall of Congresses, Administration Bldg., Louisiana Purchase Exposition, at St. Louis, Mo., on Oct. 3, 1904, beginning at 2.30 p. m. At that session the president will deliver the annual address, and the business of the meeting will be transacted. Secy., Chas. Warren Hunt, 220 West 57th St., New York City.

CENTRAL RAILWAY CLUB.—The next regular meeting will be held at Olcott Beach (on the shore of Lake Ontario, near Buffalo, N. Y.) on Friday, Sept. 9, 1904. The club will assemble at the Hotel Iroquois, Buffalo, at 9.30 a. m., and will proceed thence to the beach by electric cars. The technical work of the meeting will be taken up after luncheon at the beach. The following are on the program: "What Advance has been made in Paints for Protection of Metal Parts, and Particularly Steel Cars," a report by Mr. H. M. Butts (New York Central); "The Proposed Beneficiary," a committee report, Mr. E. P. Mooney, ch.; Report of Committee on Revision of Constitution and By-laws, by Mr. A. M. Waitt, ch.; "Is any Benefit Derived from the Use of Soda-Ash in Locomotive Tanks," by Mr. S. K. Dickerson (Lake Shore).

TECHNOLOGY CLUB OF SYRACUSE.—This club was organized at Syracuse, N. Y., on January 6, 1904, with a charter membership of 129, including engineers, architects, analytical chemists, metallurgists and geologists. The object of its organization is the promotion of professional and social intercourse among the members. The headquarters of the club are located at No. 707 Dillaye Bldg., where rooms have been suitably furnished for library and social purposes. Meetings are held monthly, except during the months of June, July, August and September. The annual election of officers takes place at the October meeting. The following officers were elected at the organization meeting: Prof. John E. Sweet, President; Prof. William Kent and Mr. Henry C. Allen, Vice-Presidents; Messrs. E. N. Trump, J. H. Barr, E. L. French and J. A. Randall, Directors; Mr. A. T. Brown, Treasurer; and Mr. A. F. Witmer, Secretary. On June 4 last, the club took a trip over the Auburn & Syracuse Electric Ry. to Auburn, N. Y., where several large manufacturing plants and the power-house of the railway were visited. These visits to manufacturing plants are to be made one of the special features of entertainment and instruction.

INTERNATIONAL NAVIGATION CONGRESS.—The tenth international navigation congress will be held at Milan, Italy, on Sept. 24 to 30, 1904. The last (ninth) congress was held, it will be remembered, at Dusseldorf, Germany, in 1902. The technical work of the congress will include consideration of the following subjects, among others. In the section on Inland Navigation, the leading subjects are: Value and management of mixed water and rail transportation; Influence of forests and swamps on rivers; Surmounting large differences of level; Inland navigation by shallow-draft vessels; Inland navigation between Central Europe and the Mediterranean Sea; Mechanical towing; Navigation canals and the course of underground streams; Effects of dredging on the river bottom. The section on Marine Navigation discusses the following: Mouths of rivers with no tidal effect; Propulsion of ships; Operation and management of harbors; Construction of harbor protection piers; Increase of size of steam and sailing vessels; Liquid fuel; Steam ferries; Harbor construction; Responsibility of captains; Coast-wise signals; Lightships; Wireless telegraphy; Government protection of marine navigation. Mr. S. di Teulada, Via Scala 3, Milan, is general secretary to the Milan congress.

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ENGINEERING SCHOOLS.

UNIVERSITY OF IOWA.—Prof. William G. Raymond, M. Am. Soc. C. E., who has been for several years a prominent member of the faculty of the Rensselaer Polytechnic Institute, is to assume charge of the Engineering Departments of the Iowa State University. These Departments have recently received quite an impetus, and a policy of rapid development has been adopted by the Board of Regents acting under the advice of President MacLean. The sum of $50,000 was appropriated by the last legislature toward an adequate engineering building, and $10,000 toward the building of a dam for the development of power in the Iowa River, which bounds the university campus on the west.

It is understood that, under the reorganization, there will be separate chairs of Mechanics, Railway Engineering, Structural Engineering, Hydraulic and Sanitary Engineering, Drawing, Electrical Engineering, Mining Engineering, Chemical Engineering, Steam Engineering, and Architecture.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Aug.				
27	Dry-dock	New York, N. Y.	S	7-14
*27	Water system	Prescott, Ariz.	P., S. & B. S.	7-28
*30	Water-works, etc.	Corinth, Miss.	P. & S.	8- 4
30	Pump	Richland Center, Wis.	S	8-25
*31	Ditch, levees, etc.	Columbus, O.	S. & B. S.	8-11
*31	Sewer system	Dansville, N. Y.	S. & B. S.	8-11
Sept.				
2	Road	Harrisburg, Pa.	S. & B. S.	8-11
2	Power house	Pittsburg, Pa.	S. & B. S.	8-18
3	Quay walls, etc.	P'tsmouth, N. H.	S	8-11
*5	Stand-pipe	Great Falls, Mont.	P., S. & B. S.	8-11
*6	Dam, etc.	Roswell, N. Mex.	S	7-21
*8	Lock gates, etc.	Pittsburg, Pa.	S	8-11
10	Store house	Norfolk, Va.	S	8-18
*13	Crib removal	Cleveland, O.	P., S. & B. S.	8-18
*15	Irrigation canal	Montrose, Colo.	S	8- 4
Oct.				
*5	Gunnison tunnel	Montrose, Colo.	S	8- 4
Dec.				
*1	Bridge	Manila, P. I.	P., S. & B. S.	7-28

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Aug. 26. Wiring, etc., Ft. Des Moines, Ia. ....Aug. 4
Aug. 27. Power machinery, Healdsburg, Cal.......Aug. 25
Aug. 31. Canal power, Chicago, Ill..............July 14
Aug. 31. Condensers, pump, etc., Chicago, Ill....Aug. 25
Sept. 1. Electric wiring, Norwich, Conn..........Aug. 4
Sept. 2. Power house, Pittsburg, Pa.............Aug. 11
Sept. 15. Electric light plant, Searcy, Ark.........Aug. 18
Sept. 26. Power franchise, Suisun, Cal............Aug. 25

BRIDGES.

Aug. 25. Bridges, Buffalo, N. Y. ....Aug. 4
Aug. 27. Bridge, Cincinnati, O....................Aug. 11
Aug. 27. Bridges, Franklin, Ind...................Aug. 18
Aug. 29. Bridge, Los Angeles, Cal.................Aug. 25
Aug. 29. Steel bridge, Los Angeles, Cal..........Aug. 25
Aug. 30. Bridge, Safe Harbor, Pa.................Aug. 18
Aug. 30. Bridge, Brookville, Pa...................Aug. 18
Aug. 31. Bridge, steel, Omaha, Neb..............Aug. 18
Aug. 31. Arch bridge, Albany, N. Y...............Aug. 25
Sept. 1. Bridges, etc., Cleveland, O.............Aug. 25
Sept. 1. Bridge, Fremont, O.....................Aug 18
Sept. 3. Bridge, Indianapolis, Ind...............Aug. 18
Sept. 3. Bridge, Celina, O......................Aug. 11
Sept. 3. Superstructure, Mt. Vernon, O..........Aug. 25
Sept. 5. Bridge, Castledale, Utah................Aug. 25
Sept. 5. Wagon bridge, Versailles, Ind..........Aug. 25
Sept. 5. Bridge work, Wabash, Ind..............Aug. 25
Sept. 5. Bridges, etc., Salem, Ind...............Aug. 25
Sept. 5. Bridges, Indianapolis, Ind..............Aug. 18
Sept. 5. Bridges, steel, Natchez, Miss...........Aug. 18
Sept. 6. Bridge, Martinez, Cal...................Aug. 18
Sept. 6. Bridge, steel, Mitchell, S. Dak..........Aug. 18
Sept. 6. Bridge reconstruction, San Raefel, Cal...Aug. 25
Sept. 6. Superstructure, Cincinnati, O...........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 6. 22 bridges, Warrensburg, Mo............Aug. 25
Sept. 6. Trestle, Yuba City, Cal.................Aug. 25
Sept. 6. Bridge, Laporte, Ind...................Aug. 25
Sept. 7. Bridge abutments, Delphi, Ind..........Aug. 25
Sept. 7. Bridge, Redding, Cal...................Aug. 18
Sept. 7. Bridges, iron, So. Bend, Ind............Aug. 11
Sept. 8. Bridges, Towson, Md....................Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 12. Bridge, Idaho City, Idaho..............Aug. 25
Oct. 12. Bridge superstructure, Chicago, Ill......Aug. 18
Advertised, Eng. News, Aug. 18.
Sept. 20. Stone and iron bridge, Crown Point, Ind. Aug. 25
Dec. 1. Bridge superstructure, Manila, P. I......July 28
Advertised, Eng. News, July 28 to Dec. 1.

BUILDINGS.

Aug. 25. Court house, Detroit, Mich. ....Aug. 4
Aug. 25. School, Dawson, Minn. ....Aug. 4
Aug. 25. Cathedral plans (Foreign), Roumania......July 7
Aug. 26. School, Chicago, Ill.....................Aug. 25
Aug. 27. Hot-water heating, Pt. Townsend, Wash...Aug. 4
Aug. 27. Elec. light fixtures, etc., Ft. Totten, N. Y. Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 1.
Aug. 27. Brick buildings, Ft. Andrews, Mass......Aug. 18
Aug. 29. Post office, Moberly, Mo................July 21
Aug. 29. Court house, Minot, N. Dak..............Aug. 18
Aug. 29. Jail, Natchitoches, La...................Aug. 18
Aug. 29. Exchange building, Ft. Williams, Me....Aug. 18
Aug. 30. Several buildings, Detroit, Mich..........Aug. 18
Aug. 30. Fire houses, New York, N. Y.............Aug. 25
Aug. 30. Heating system, Boston, Mass...........Aug. 25
Aug. 30. Hospital, Farmington, Mo...............Aug. 25
Aug. 31. City hall, Moose Jaw, Assa..............Aug. 18
Aug. 31. Cement floors, Chattanooga, Tenn........Aug 18
Advertised, Eng. News, Aug. 18 to Sept. 1.
Sept. 2. Foundations, concrete, Pittsburg, Pa....Aug. 11
Sept. 2. Balconies, Brooklyn, N. Y...............Aug. 25
Sept. 3. Court house, Louisa, Va.................Aug. 25
Sept. 3. Electric fixtures, Ft. Snelling, Minn....Aug. 25
Sept. 5. Jail, Opelousas, La. ....Aug. 4
Sept. 5. Jail, Aberdeen, Miss....................Aug. 18
Sept. 6. Post office, Marshalltown, Ia. ....Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 7. Barracks, Ft. Douglas, Utah..............Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 7. Heating, ventilating, Ames, Ia...........Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 1.
Sept. 7. Storehouse, etc., Rochester, N. Y........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 8. Court house, Minden, La.................Aug. 11
Sept. 8. Steam heating, Norwich, Conn............Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 9. Capitol repairs, Des Moines, Ia...........Aug. 25
Sept. 10. Public school, Greenville, Miss..........Aug. 25
Sept. 10. High school, Missoula, Mont. ....Jun. 30
Sept. 12. Post office, Kankakee, Ill...............Aug. 11
Sept. 12. Post office, Zanesville, O...............Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 1.
Sept. 14. Post office, Laramie, Wyo. ....Aug. 4
Sept. 15. Post office, Grand Haven, Mich..........Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 16. Post office, Marblehead, Mass...........Aug. 18
Sept. 17. Schools, etc., Oakland, Cal..............July 28
Sept. 19. Wiring system, Greenville, Tenn.........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 20. Out-building, Washington, D. C.........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 22. Library work, New York, N. Y...........Aug. 18
Sept. 30. School plans, Oakland, Cal..............Aug. 25
Oct. 1. Court house plans, Manitowoc, Wis......Aug. 18

WATER SUPPLY AND IRRIGATION.

Aug. 25. Tank and tower, Columbus, O...........Aug. 11
Aug. 26. Water-works, Twin Valley, Minn.........Aug. 18
Aug. 26. Stand-pipe, Brockton, Mass.............Aug. 18
Aug. 27. Distributing system, Prescott, Ariz......July 28
Advertised, Eng. News, July 28 to Aug. 25.
Aug. 29. Water-works, etc., Lakeland, Fla.......Aug. 25
Aug. 29. Water main, East Toronto, Ont..........Aug. 25
Aug. 30. Pump'g engine, etc., Richland Cntr, Wis. Aug. 25
Aug. 30. Cast-iron pipes, Java (Foreign)..........July 14
Advertised, Eng. News, July 14 and 28.
Aug. 30. Water-works, etc., Corinth, Mass.......Aug. 4
Advertised, Eng. News, Aug. 4 to 25.
Aug. 31. Pumping station, etc., New York, N. Y..Aug. 18
Aug. 31. Filters, Poughkeepsie, N. Y............Aug. 25
Advertised, Eng. News, Aug. 25.
Sept. 1. Pipe line, Coshocton, O.................Aug. 18
Sept. 1. Canal, excavation, Goshen, N. Y........Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Sept. 2. Well, Duquesne, Pa....................Aug. 18
Advertised, Eng. News, Aug. 18 and 25.
Sept. 5. Water-works, Hawkeye, Ia..............Aug. 18
Sept. 5. Stand-pipe, Great Falls, Mont. ....Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 7. Laying mains, Portage la Prairie, Man..Aug. 18
Advertised, Eng. News, Aug. 18.
Sept. 9. Reservoir, etc., Cincinnati, O..........Aug. 18
Advertised, Eng. News, Aug. 18
Sept. 12. Water pipe, Victoria, B. C.............Aug. 11
Sept. 13. Reservoir repairing, Columbus, O......Aug. 25
Sept. 14. Water pipe, Portland, Ore.............Aug. 25
Sept. 15. Canals, etc., Montrose, Colo...........Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 15.
Oct. 1. Water-works, Chili ....Aug. 25
Oct. 5. Tunnel, etc., Montrose, Colo. ....Aug. 4
Advertised, Eng. News, Aug. 4 to Oct. 6.
Nov. 1. Water-works, etc., Summerside, P. E. I..Aug. 25

SEWERAGE.

Aug. 26. Sewage station, Pt. Jervis, N. Y........Aug. 25
Aug. 29. Sewers, Oklahoma City, Okla...........Aug. 25
Aug. 29. Sewers, etc., Palmerston, Ont..........Aug. 25
Aug. 29. Sewer, Des Moines, Ia..................Aug. 25
Aug. 29. Main sewer, Canton, O..................Aug. 11
Advertised, Eng. News, Aug. 11.
Aug. 29. Sewer, Washington, D. C...............Aug. 18
Aug. [illegible] Sewer, Monticello, Ind...............Aug. 18
Aug. 30. Sewer, Frankfort, Ind..................Aug. 25
Aug. 31. Sewers, Chicago, Ill...................Aug. 25
Aug. 31. Sewers, Springfield, Ill................Aug. 25
Aug. 31. Sewers, Cleveland, O..................Aug. 18
Aug. 31. Sewers, Bridgeport, Conn.............Aug. 18
Advertised, Eng. News, Aug. 18 to 25.
Aug. 31. Sewer work, Dansville, N. Y...........Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Sept. 1. Sewers, Zanesville, O..................Aug. 18
Sept. 1. Sewer work, Milbank, S. D.............Aug. 25
Sept. 2. Sewers, Akron, O......................Aug. 25
Sept. 2. Sewer system, Laurel, Miss............Aug. 11
Advertised, Eng. News, Aug. 11.
Sept. 3. Sewers, Seattle, Wash.................Aug. 25
Sept. 3. Sewer, Des Moines, Ia.................Aug. 25
Sept. 3. Sewer, Findlay, O.....................Aug. 25
Sept. 1. Sewers, Memphis, Tenn................Aug. 18
Sept. 5. Sewers, Nappanee, Ind................Aug. 18
Sept. 5. Sewers, Mitchell, S. D................Aug. 25
Sept. 6. Sewer system, Oradell, N. J...........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 6. Sewers, St. Louis, Mo.................Aug 25
Sept. 6. Sewer, Westfield, N. J................Aug. 25
Sept. 7. Sewer, Dover, O......................Aug. 25
Sept. 8. Sewers, Fargo, N. Dak.................Aug. 25
Sept. 8. Sewers, Delphos, O...................Aug. 18
Sept. 8. Sewers, etc., Mansfield, O.............Aug. 25
Advertised, Eng. News, Aug. 25.
Sept. 8. Drain, Hackensack, N. J...............Aug. 25
Advertised, Eng. News, Aug. 25 and Sept. 1.
Sept. 12. Sewerage system, Washington, D. C....Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 8.
Sept. 20. Septic tank, etc., Tallahassee, Fla.......Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 15.
No date. Sewers, Mt. Pleasant, Pa...............Aug. 18
No date. Sewer system plans, Perry, Ia...........Aug. 18

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

STREETS AND ROADS.

Aug. 25. Paving, granite, New York, N. Y.........Aug. 18
Aug. 25. Paving and curbing, Wellsville, N. Y....Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Aug. 25. Paving, etc., Salisbury, N. C...........Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Aug. 25. Paving brick, Jerseyville, Ill. ....Aug. 4
Aug. 26. Paving, vitrified brick, Cincinnati, O....Aug. 11
Aug. 26. Sidewalks, cement, Indianapolis, Ind....Aug. 18
Aug. 27. Paving, Pittsburg, Pa..................Aug. 18
Aug. 29. Curbing, Muncie, Ind...................Aug. 18
Aug. 29. Roads, Bowling Green, O...............Aug. 11
Aug. 29. Paving, etc., Cambridge, O.............Aug. 11
Aug. 29. Macadamizing, Oshkosh, Wis...........Aug. 11
Aug. 29. Paving, etc., Norfolk, Va..............Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Aug. 29. Macadamizing, Hinsdale................Aug. 25
Advertised, Eng. News, Aug. 25.
Aug. 29. Paving, Toledo, O....................Aug. 25
Aug. 29. Curbing, Des Moines, Ia...............Aug. 25
Aug. 29. Macadamizing, Keokuk, Ia.............Aug. 25
Aug. 29. Paving, Oklahoma City, Okla...........Aug. 25
Aug. 29. Macadamizing, bridges, etc., Oakland, Cal. Aug. 25
Aug. 30. Paving, Washington, D. C.............Aug. 25
Advertised, Eng. News, Aug. 25.
Aug. 30. Road work, Palmyra, Ill................Aug. 25
Aug. 30. Paving, etc., Columbus, O..............Aug. 25
Aug. 30. Paving, New Brighton, N. Y............Aug. 18
Aug. 31. Graveling, Wapakoneta, O..............Aug. 11
Aug. 31. Paving, etc., Cincinnati, O.............Aug. 11
Aug. 31. Roads, Cleveland, O...................Aug. 11
Sept. 1. Roads, Fort Du Pont, Del..............Aug. 11
Advertised, Eng. News, Aug. 11 and 18.
Sept. 1. Paving, S. McAlester, Ind. T...........Aug. 25
Sept. 1. Paving, Cumberland, Md...............Aug. 25
Sept. 2. Macadamizing, Paterson, N. J..........Aug. 25
Sept. 2. Paving, etc., Omaha, Neb..............Aug. 25
Advertised, Eng. News, Aug. 25.
Sept. 2. Road, Harrisburg, Pa..................Aug 11
Sept. 3. Roads, Ottawa, O.....................Aug. 18
Sept. 3. Paving, Seattle, Wash.................Aug. 25
Sept. 3. Grading, Cincinnati, O................Aug. 25
Sept. 5. Grading, Vicksburg, Miss..............Aug. 25
Sept. 5. Brick paving, Crawfordsville, Ind.......Aug. 25
Sept. 5. Roads, Bowling Green, Ind.............Aug. 18
Sept. 5. Roads, gravel, Greenburgh, Ind.........Aug. 18
Sept. 5. Macadamizing, Glenville, O............Aug. 11
Sept. 6. Macadamizing, etc., Cincinnati, O.......Aug. 18
Sept. 6. Paving, Henderson, Ky................Aug. 25
Sept. 6. Paving, St. Louis, Mo.................Aug. 25
Sept. 7. Road, Ukiah, Cal.....................Aug. 18
Sept. 8. Paving, Xenia, O.....................Aug. 18
Sept. 8. Paving, Chillicothe, Mo...............Aug. 25
Sept. 10. Paving, etc., Ashtabula, O............Aug. 25
Sept. 12. Curbing, etc., Muncie, Ind............Aug. 25
Sept. 12. Grading, macadamizing, Wabash, Ind...Aug. 25
Sept. 12. Paving, Kent, O.....................Aug. 25
Sept. 12. Road, Harrisburg, Pa................Aug. 18
Sept. 14. Grading, graveling, Cleveland, O.......Aug. 25
Sept. 15. Paving, brick, Barnesville, O..........Aug. 11
Sept. 16. Paving, Lorain, O....................Aug. 25
Oct. 3. Road, Yuma, Ariz....................Aug. 11
No date. Paving, brick, Morris, Ill..............July 21
Advertised, Eng. News, July 21 to Oct. 13.

MISCELLANEOUS CONTRACTS.

Aug. 25. Excavation, Crysler, Ont...............Aug. 18
Aug. 25. Cement, Minidoka, Idaho. ....July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 26. Floating boat house, Washington, D. C..Aug. 18
Aug. 26. Garbage plant, Elmira, N. Y............Aug. 18
Aug. 26. Fire hose, Cleveland, O................Aug. 25
Aug. 27. Dry-dock, New York, N. Y.............July 14
Aug. 31. Ditch, levees, etc., Columbus, O........Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 1.
Aug. 31. Excavating, repairing, etc., Albany, N. Y. Aug. 25
Aug. 31. Boilers, New York, N. Y...............Aug. 25
Sept. 1. Levees, sewers, etc., Memphis, Tenn....Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 1.
Sept. 1. Garbage removal, etc., Philadelphia, Pa...Aug. 11
Sept. 2. Tile drain, Green Valley, Ill............Aug. 18
Sept. 3. Quay walls and pier, Portsmouth, N. H. Aug. 11
Sept. 5. Elevator, etc., Washington, D. C........Aug. 11
Advertised, Eng. News, Aug. 11.
Sept. 6. Dump boat, St. Louis, Mo..............Aug. 11
Sept. 6. Dam, etc., Roswell, N. Mex. ....July 21
Advertised, Eng. News, July 21 to Sept. 1.
Sept. 6. Garbage furnace, Crafton, Pa............Aug. 18
Sept. 8. Lock gates and anchorages, Pittsburg, Pa. Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 9. Steel, iron, etc., Chicago, Ill...........Aug. 11
Advertised, Eng. News, Aug. 11 to Sept. 8.
Sept. 10. Window and door screens, Prescott, Ariz. Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 1.
Sept. 10. Store house, Norfolk, Va...............Aug. 18
Sept. 10. Earthwork, New Orleans, La............Aug. 25
Sept. 13. Hire of dredging plant, Detroit, Mich....Aug. 25
Sept. 13. Crib removal, Cleveland, O............Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 1.
Sept. 22. Telephone system, Montrose, Colo......Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 29.
Sept. 22. Railway construction, Brazil............Aug. 25
Sept. 22. Harbor improvement, Galveston, Tex....Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 22.
Sept. 22. Library stack work, New York, N. Y....Aug. 11
Sept. 24. Dredging, Mobile, Ala.................Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 22.
Oct. 1. Telephone service, Toronto, Ont.........Aug. 25
Advertised, Eng. News, Aug. 24 to Sept. 15.
Oct. 12. Embankment, Chicago, Ill..............Aug. 18
Oct. 15. Tug boat, Cuba.......................Aug 18
Oct. 15. Plans for harbor, Sweden (Foreign)....April 21
Nov. 10. Docks, moles and forts, Chili...........Aug. 18

RAILWAYS.

ALABAMA.—W. J. Van Kirk, Samson, Ala., is reported in the market for 10 miles of 40-lb. rails.

BIRMINGHAM, COLUMBUS & ST. ANDREWS BAY.—Work is said to have been begun on this proposed railroad by W. O. Butler, of Chipley, Fla. It is proposed eventually to extend the line north to Birmingham, distant about 300 miles. J. M. Garrett, Montgomery, Ala., may be addressed.

CANADA.—Contractors are wanted who will undertake the construction of 350 miles of railway. Address "Canadian," care of Engineering News, 220 Broadway, New York.

DAWSON RY.—It is again reported that the Dawson Railroad will be extended from the Dawson coal mines, Dawson, N. Mex., to Pueblo, Colo.

DE QUEEN & EASTERN.—This company will build a line from De Queen, Ark., to Provo. It will pass through Center Point and connect with the Southwest Arkansas & Indian Territory at Murfreesboro. The Dierks Bros., of De Queen, are the principal owners of the road and James Brizzolara, of Fort Smith, is Gen. Counsel.

DUBLIN & SOUTHWESTERN.—Right-of-way for the extension of this line from Rentz, Ga., to Eastman has been secured and work will begin soon.

GRAND TRUNK PACIFIC.—This company recently was organized at Montreal, Que. C. M. Hays, General Manager of the Grand Trunk, was elected President. He is reported as saying that surveys are now being made on that section of the road between Winnipeg and the Pacific coast. There is said to be but a slight possibility of work beginning this year.

GUELPH & GODERICH.—Contracts have been let for building this railroad between Guelph and Goderich, Ont. The work has been divided into eight sections of ten miles each. A. M. Piggott, of Hamilton, Ont., was awarded the contract for sections 2, 3, 7 and 8, and D. B. Campbell, of Strathroy, contract for sections 1, 4, 5 and 6. Work will be begun at once. J. W. Leonard is Pres.; P. A. Peterson is Ch. Engr.

HEARNE & BRAZOS VALLEY.—This road is to be extended south from Stone City, Tex., to a connection with the San Antonio & Aransas Pass and the Houston & Texas Central roads at Giddings, a distance of about 45 miles. The route of the proposed extension is by way of Caldwell. E. M. Moursund is Vice-Pres. and Gen. Mgr., Hearne, Tex.

IONE & EASTERN.—H. E. C. Feusier, Ch. Engr., Sunol, Cal., informs us that the Atlas Contract & Supply Co., 311 Rialto Bldg., San Francisco, Cal., that has contract to construct and equip 28 miles for this line has sublet a part of the work to Ericson & Peterson, of San Francisco, who will grade, do all the testing and bridgework and lay track. One mile of grade is now ready for track. The first consignment of steel wire has arrived. The contract calls for completion of first section of 12 miles by the 15th of December, 1904. Line will extend from Ione to Amador, Cal., with a 13-mile branch from Sutter Creek to Volcano. Five stations will be erected, two coaling stations, two round-houses, one repair shop, eight water tanks, and 3,834 lin. ft. of wood trestling. Mr. Feusier may be addressed at 311 Rialto Bldg., San Francisco.

NASHVILLE, CHATTANOOGA & ST. LOUIS.—It is reported that grading has been completed for 9-mile extension of the McMinnville branch of this road from Bon Air, Tenn. H. McDonald, Nashville, Tenn., is Ch. Engr.

NEW MEXICO & PACIFIC.—Construction of this line between Raton, N. Mex., and Elizabethtown may be begun soon. From Elizabethtown it will be extended to Taos, connecting with the Denver & Rio Grande Ry. Jeremiah Leahy, Dist. Atty., Santa Fe, N. Mex., is said to be interested.

PARAGOULD & MEMPHIS.—Directors have voted to extend the line from Paragould northward to Poplar Bluff, Mo., a distance of 50 miles, passing through Piggott, Ark. Reported that Kennett, Mo., will make an effort to have the railroad build to Piggott through that town. It is understood that Piggott has already proposed to give the company the survey charter, rights of way, switch yards, depot site and $2,500 in money. The company is stated to be ready for work at an early date. The Paragould & Memphis at present extends from Cardwell, Mo., a distance of 24 miles. F. Quinn, Cardwell, is Gen. Mgr.

PEACH RIVER.—W. S. Deley & Co., of Houston, Tex., is reported to have been awarded the contract for constructing line to connect with the Houston, East & West Texas Ry. at Midline Station, 36 miles north of Houston. R. W. Luttrell, Galveston, Tex., is Ch. Engr.

ST. JOSEPH, ALBANY & DES MOINES.—Company was incorporated recently with $800,000 capital. F. S. Mordaunt, 107 Washington St., Chicago, Pres., is reported as stating that "the company will have 180 miles of main line track from St. Joseph, Mo., to Des Moines, Ia., with a 20-mile extension into coal fields in Iowa and 30 miles of sidings; total, 230 miles; grade, 1 per cent.; rails, 80-lb. The company is thoroughly financed, the money is ready for construction, and the second corps of engineers is in the field. When all rights of way have been secured it is expected to complete grading as far as possible before cold weather begins."

ST. LOUIS, BROWNSVILLE & MEXICO.—Contract is reported to have been let to Johnston Bros., Corpus Christi, Tex., for the construction of the road from Robstown to Bay City, through Refugio and Placido, 144 miles. Grading and tracklaying will start from Bay City.

ST. LOUIS, LITTLE ROCK & GULF.—President Shaner has been quoted as saying that work of clearing the right of way for the proposed road is progressing rapidly and that in a short time the work of grading will begin. T. M. Dodson & Son have the contract for the grading. Previously reported that contract for building the road from Little Rock to Sheridan, Ark., a distance of 40 miles, has been let to Donald Grant & Co., of Faribault, Minn.

SOUTHERN PACIFIC.—W. Garvin, a S. P. engineer, is reported to be running a survey for the company's proposed line from Pearce to Douglas, Ariz. From this point it may be extended to Naco, Ariz.

New machine shops, boiler shops and round-house will be erected east of the marine ways that are being built at the foot of Peralta St., Oakland, Cal. A turn-table will be built. It is estimated that the cost of the proposed improvements, including the new marine ways, will be about $500,000.

TOPEKA, FRANKFORT & NORTHWESTERN.—It has been voted to begin work at once on this proposed railroad from Topeka, Kan., northwest through the counties of Shawnee, Jackson, Pottawatomie and Marshall to Frankfort, 60 miles. It was reported that the line would be extended to Marysville, Kan., connecting at this point with the St. Joseph & Grand Island Ry. P. L. Wise, Topeka, Kan., is Ch. Engr.

VIRGINIA RAILROAD.—This is a Richmond, Va., company, capitalized at $2,000,000, that plans to build a railway from Rosney, in Buckingham County, on the line of the James River division of the Chesapeake & Orio Railway, to Danville, near the North Carolina line. The projected line will pass through the counties of Buckingham, Cumberland, Prince Edward, Charlotte, Halifax and Pittsylvania, with its terminus at Danville. Route has been surveyed and is an easily practicable one, the profile of the road showing a maximum grade of but 52 ft. to the mile and no great topographical difficulties. President, Kenner Crawley of Farmville. E. R. Williams is Chn. Bd. Directors.

WABASH.—A survey is reported to have been made from Sitlington, Va., to Ganley Bridge, W. Va., for this system. W. S. Newhall, St. Louis, Mo., is Ch. Engr.

WESTERN MARYLAND.—Baltimore, Md., reports state that the company has available about $13,700,000 for construction work and extension of lines; $1,734,000 is to be used for Baltimore terminals. Jos. Ramsey, Jr., is Pres., St. Louis, Mo. J. Q. Barlow, Cumberland, Md., is Ch. Engr.

NEW INCORPORATIONS AND CHARTERS.

DELTA SOUTHERN.—Miss.—Company has been chartered. J. S. B. Thompson, of Atlanta; M. M. Richey, of Birmingham; W. W. Stone and Joshua Skinner, of Greenville, and David McMullen, of Evanston, Ill., are the incorporators. The road is to traverse Washington, Bolivar, Sharkey and Yazoo Counties, about 60 miles.

DETROIT-GRAND RAPIDS TERMINAL.—Mich.—This company has incorporated with $50,000 capital and filed a map showing an extension of the Grand Trunk system in Grand Rapids to a more central point in the city.

MEMPHIS & PENSACOLA.—Miss.—Charter has been applied for to build a line from Memphis, Tenn., to Pensacola, Fla., by the most direct route, about 350 miles, via Meridian, Miss. The incorporators are E. T. Haines, G. A. Scott and W. C. Roberts, of New York City, and I. F. Woodruff, of Kinderhook, N. Y. Already two companies have been chartered to build from Memphis to Pensacola, the Memphis & Gulf and the Pensacola, Meridian & Northwestern.

MEMPHIS, PARIS & GULF.—Ark.—Company has been organized and a charter applied for to build a line from Memphis, Tenn., to Paris, Tex. Company is capitalized at $6,000,000, of which $1,000,000 has been subscribed. Road will be constructed from a point in Crittenden County, Ark., just opposite Memphis, on the Mississippi River, to a point on the boundary line between Sevier County, Ark., and the Indian Territory; and to a point on the boundary line between Union County, Ark., and Louisiana as the terminal in Arkansas, and to a point near Sabine Pass, in Texas. Total length of the three branches is estimated at 400 miles. J. W. Brown, Pres., of Camden, Ark.; W. W. Brown, Vice-Pres.; C. E. Neely, Secy.; R. W. Huie, Auditor; W K. Ramsey, Treas.; C. C. Henderson, Gen. Mgr., Arkadelphia, Ark

MENTOR SOUTHERN.—Tenn.—Company has been incorporated with a capital stock of $50,000. The incorporators are: J. H. Ringgold, H. W. Oliver, W. L. Pomeroy and others. Line will be built from the main line of the Atlanta, Knoxville & Northern Railway at Mentor, Blount County, in a southerly direction through Blount, Loudon and Monroe Counties, 20 miles. It will be built within two miles of Marysville, Tenn. John H. Peyton, Ch. Engr. of Construction on A., K. & N., may be addressed at Madisonville, Tenn.

MOXAHALA & BRISTOL.—O.—This company has been incorporated with $25,000 capital stock to construct a railroad from a connecting point with the Toledo & Ohio Central Railway, near Moxahala, to a point connecting with the B. & O. Railway, passing up Johnathan's Creek through Pleasant and Rike Townships.

STREET AND ELECTRIC RAILWAYS.

AUBURN, ME.—John A. Jones, Lewiston, Me., Ch. Engr., Auburn & Turner Ry., writes that location for projected electric road has been determined, and right of way secured. Surveys have been nearly completed. Projected length is 10¼ miles, and line is to extend from Auburn to Turner. Harry Mansur, Auburn, Me., is Pres.

NORWICH, CONN.—Consolidated Ry. Co., which is controlled by N. Y., N. H. & H. R. R., will, it is stated, soon begin construction of trolley line from Central Village to this place.

SYRACUSE, N. Y.—T. H. Mather, Syracuse, Ch. Engr. Rochester, Syracuse & Eastern R. R., writes that total location for the road has been made, and route will be on private right of way, except through villages. 40 miles of right of way has been purchased. Capital for construction has been provided, and contracts for 22 miles have been let, F. T. Ley & Co., Springfield, Mass., securing contract for Sec. No. 1, and John Shields Construction Co., 1 Madison Ave., New York, contracts for Secs. Nos. 2 and 3. Work is now in progress. Projected length of the line is 80 miles. L. C. Smith, Syracuse, is Pres.

LIBRARY, PA.—Engineers are at work surveying routes for a new trolley line extending from Library to Clairton. The line is backed largely by steel manufacturers and others interested in the real estate business in Clairton. At Library the new line will connect with the present line from Pittsburg to Charleroi, thus giving a through service to Pittsburg.

LA ANNA, PA.—A trolley line, running through the Pocono Mountain region in Monroe, Pike and Wayne Counties, seems to be assured. The following organization has been effected: John B. Williams, Stroudsberg, President; John D. Houck, La Anna, Treasurer; Geo. L. Waltz, Newfoundland, Vice-President, and Dr. Arthur L. Simons, Secretary. The new company will be known as the Pocono, La Anna & Newfoundland Ry. Co. The East Branch Falls may be utilized for a power plant.

YORK, PA.—Surveyors for the York County Traction Co. are making the survey for a proposed line from Dallastown to Yorkanna via Yoe and Friesville. The proposed electric line will connect at Dallastown with the company's York, Dallastown, Red Lion and Winsorville line. The new route will travel a populous and rich farming country, and will be about ten miles in length. The company has met with no opposition in securing right of way, and the work of constructing the road will likely begin within a month. The line will eventually be extended from Yorkanna to the river, and thence along the river shore to Wrightsville, connecting there with the York & Wrightsville Electric Railway, thus forming a belt line, traversing a circle of 30 or more miles. The work of constructing the line will be in charge of John Daubling, who has built most of the electric railways in York County. J. F. Dusman is Mgr.

PENNSBORO, W. VA.—An electric railway is to be built between Pennsboro and Harrisville by the Pennsboro & Harrisville Traction Co. The company is being backed by farmers living along the proposed line. It is expected that cars will be running in eight months. The railway will open up a new country.

GREENVILLE, S. C.—Right of way for the Greenville & Knoxville Ry. Co. has been secured, and work of construction will be started at once. Hugh Prince is Pres.

DECATUR, ALA.—Matter of constructing electric street railway from this city to Trinty Mountain, seven miles, is under consideration.

OWENSBORO, KY.—Amended articles were filed by the Owensboro City Railroad Co., authorizing it to build a line 15 miles into Daviess County. J. H. Parrish is Secy.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

STEUBENVILLE, O.—The survey of the new Steubenville-Canton car line will be begun Sept. 1.

YOUNGSTOWN, O.—Preliminary surveys are soon to be made for a new route for Youngstown & Southern electric line from this city to Leetonia. Engineering corps has been in the field for some time under charge of George Todd, Jr.

EVANSVILLE, IND.—A press report from this place states that following work is planned by traction lines in Southern Indiana this year: The Evansville & Eastern Indiana Traction Co. will begin work on its line about Sept. 1. The road will extend to Rockport, Ind., 60 miles. The Evansville Suburban & Newburg R. R. will be converted into a traction line, and extended to Rockport. The survey for the Evansville & Henderson Traction line is completed. A traction line is also being planned from this city to Mount Vernon, Ind.

MARION, IND.—Geneva Traction Co. has been granted a 49-year franchise here, permitting it to enter the city from the east.

WARSAW, IND.—Warsaw, Winona & Wabash Interurban Ry. has applied for franchise here. Project is backed by Indiana Central Traction Co.

WABASH, IND.—Wabash & Rochester Ry. Co., Geneva, O., is stated to have appropriated $25,000 for building new road.

OWOSSO, MICH.—E. M. Hopkins, Pres. Owosso & Pontiac Electric Ry. Co., says that contracts have been let with Farnham & Co., of Chicago, for the construction of the 60 miles of the road between those points, and that work will be started at once. The company is capitalized at $1,800,000.

SAGINAW, MICH.—Contract for the completion of the Detroit, Flint & Saginaw Electric road from Bridgeport to Frankenmuth has been awarded to W. L. Patterson, Flint, Mich. Bridgeport has been decided upon as the location of the power house.

KEWANEE, ILL.—The Council has granted the Kewanee, Cambridge & Geneseo Interurban Co. a 50-year franchise. Work on the new line will begin at once.

DES MOINES, IA.—Lyman Waterman, Omaha, Neb.; S. B. Wadsworth, Council Bluffs, Ia., and John R. Black, Griswold, Ia., are reported interested in project for new electric line to run from Omaha and Council Bluffs to Des Moines, 150 miles.

MANKATO, MINN.—The Mankato Railway, Light & Power Co. has been organized by citizens with $50,000 capital, and the council has granted it a franchise to build a street railway in the city. It is proposed to build an interurban line to Eagle Lake and St. Clair and possibly to Madison Lake. The company has entered a contract with the Municipal Bond & Securities Co. of New York to furnish the capital needed and to build the line. The company has made a payment to $2,500 to bind the contract, and has agreed to put up a bond of $1,000 to the city. The company will do commercial lighting and furnish power as well as operate the street car line. It is now considered almost certain that the line will be built. The company has 18 months in which to build it, and the surveys have already been made, and half of the county right of way secured.

OMAHA, NEB.—Omaha & Council Bluffs Street Ry. Co., W. A. Smith, Mgr., will build lines to Fort Crook and Bellevue next year.

Omaha & Nebraska Central Railway has been incorporated for $1,500,000, and will build and operate an electric railway line from Omaha to Hastings by way of Wahoo, David City, Osceola, Stromsburg, Aurora, Giltner and Trumbull. Charles J. Helm, Anthony Texter and Charles Deter are interested.

MISSOULA, MONT.—Amador Mining & Milling Co., D. E. McKinnon, Secy., contemplates building an electric road from the town of Amador to the mines.

LEWISTOWN, MONT.—Preliminary surveys are stated to be under way for an electric line to run between Lewistown and Kendall. J. L. Bright is interested.

ST. CHARLES, MO.—The Central Missouri Ry. Co., which is to build an electric line from Kansas City to St. Louis, has made application to the St. Charles County Court for a franchise granting the right to cross county roads. The survey passes St. Charles four miles away. The company intends to cross the Missouri River four miles south of St. Louis.

FORT SMITH, ARK.—H. M. Byllesby & Co., of Chicago, Ill., have been appointed engineers for the Fort Smith Light & Traction Co., and extensive improvements and extensions will shortly be undertaken.

PORT ARTHUR, TEX.—County Commissioners have granted franchise to Port Arthur & Southern Electric Ry. Co. for three-mile electric railroad from Port Arthur to the docks. George Woodward, D. L. Bird and John H. Young were applicants for the franchise. Company has capital of $100,000, and it is stated that enough of this has been subscribed to commence work.

SEGUIN, TEX.—Surveys will probably be made at once for electric road from New Braunfels to Gonzales via Seguin. Athens Loan Agency, Athens, Tex., is reported interested.

OKLAHOMA CITY, OKLA.—R. L. McWillie, Ch. Engr., and Geo. A. Teague, Secy., of the Oklahoma City, Lexington & Sulphur Springs Railway, filed with National Secretary Thompson, of the Chickasaw Nation, two plans of their proposed line from Oklahoma City to Sulphur Springs, I. T., a distance of about 85 miles. It has been announced that it is the intention of the company to build the line on to Denison, Tex. It will be an electric road, and will go through the best part of the Chickasaw Nation. Work will begin on construction out of Oklahoma City at once.

SPOKANE, WASH.—The Commissioners of Spokane County have been petitioned for a franchise for an electric line from Spokane to the south line of the county. The proposed line will run from Spokane to Colfax through Pine City and Rosalia. The franchise for Whitman County has been granted.

CLARKSTON, WASH.—Local reports state that Lewiston-Clarkson Co. will construct an electric road to connect Clarkston and Lewiston, and perhaps extend it into some of the outlying districts.

DAVENPORT, WASH.—It is stated that work will be begun this winter on proposed line of Adams County Electric Ry. Co., Cal. Lunceford, Pres. and Mgr.

SPOKANE, WASH.—Washington Water Power Co. has applied for franchise for an electric line across New Hangman Creek bridge, with intention, it is believed, of extending the road to Medical Lake.

EUGENE, ORE.—Willamette Valley Electric Railway Co., which has secured a franchise to build a system of trolley lines along Lane County roads, has filed articles of incorporation. The incorporators are: Congressman J. F. Wilson, Prescott, Ariz., and M. F. Taft and W. J. Wilsey, also of Prescott. The capital stock is $1,000,000 and principal offices and place of business is at Eugene.

PORTLAND, ORE.—The City & Suburban Ry. Co. will be consolidated with the Portland Ry. Co., the new corporation to be called the Portland & Suburban Street Ry. Co., capitalized at $4,000,000. The Portland Co. is owned by New York City and San Francisco capitalists.

SANTA BARBARA, CAL.—The Interurban Ry. Co., which proposes to construct and operate a line of railway in this city has been incorporated at Jersey City, N. J., with $250,000 capital.

LIGHT, HEAT AND POWER PLANTS.

BOSTON, MASS.—Lieut.-Col. W. S. Stanton, Engrs., writes us under date of Aug. 22 that contracts for power plants at Forts Warren and Strong were made as follows: Class A, Boilers, Heine Safety Boiler Co.; Class B, engines, Ridgway Dynamo & Engine Co.; Class C, generators, Bullock Electric Mfg. Co.; Class D, cable, Standard Underground Cable Co.; Class E, conduit, American Vitrified Conduit Co.

HARTFORD, CONN.—Thos. C. Perkins, Hartford, has secured control of the Windsor Locks Electric Light Co., of Windsor Locks, Conn. It is stated that the steam plant will be enlarged and water power increased.

NEW YORK, N. Y.—Plans have been filed for erection of one-story stone and steel gas tank, 189×189 ft., for Central Union Gas Co., 350 Alexander Ave., New York. Estimated cost is $100,000. E. A. Spencer, 350 Alexander Ave., is Arch.

ALLEGHENY, PA.—Contract for new dynamo for city electric light plant has been let to Western Electric Co. All bids for rebuilding the electric light plant were found to exceed the estimate of $31,000, and new bids will be called for. E. J. McIlvain is Dir. Pub. Wks.

OXFORD, PA.—The Union Railway Supply Co., Real Estate Trust Bldg., Philadelphia, has been awarded contract for a gas and light plant for the Oxford Gas Co. Boiler, engine and complete equipment will be installed.

PHILADELPHIA, PA.—Rodyhouse, Arey & Co., Fidelity Bldg., have been awarded the contract for a 2-story brick addition to a power-house at 2219 E. Fletcher St., for Jas. Pollock & Sons.

LAKELAND, FLA.—See under Water-Works.

ANNISTON, ALA.—Anniston Electric & Gas Co., incorporated under laws of New Jersey, with $25,000 capital, has filed its articles in Alabama. Clifford W. Perkins is interested.

BIRMINGHAM, ALA.—Harder Gas Furnace Co. has been incorporated with $500,000 capital, with Wm. L. Harder, Pres., 5612 First Ave., Birmingham, and O. N. Rauschenberg, 411 S. 11th St., Birmingham, Secy. It is proposed to erect a large plant in this district for the manufacture of gas from coal and for the construction and sale of gas producers.

NEW ALBANY, MISS.—The Mayor and Aldermen will receive sealed bids until Sept. 6 for $20,000 water and light bonds. E. M. Owen is Cy. Clk.; Walter G. Kirkpatrick, Jackson, Miss., is Engr.

NEW ORLEANS, LA.—Sewerage Board opened bids Aug. 15 for extending transmission lines from the central power station to the pumping station. The New Orleans Electric Co. was low bidder at $8,995. For supplying two gas producers at pumping station Glenny & Castanedo was only bidder at $2,200 each for use with anthracite coal, and $3,900 each for use with bituminous coal or sawdust.

New Orleans Rys. Co., Elwyn C. Foster, Pres., according to reports is to construct new power-house at Richard and South Peters Sts., at a cost of about $50,000.

CAMILLA, GA.—City contemplates $20,000 bond issue for electric lights and water-works.

PLAQUEMINE, LA.—This town has granted franchise to the Ewing-Merkle Electric Co., St. Louis, Mo., for the erection of electric light plant.

OPELOUSAS, LA.—Contracts for new arc lights and the water and electric light meter system soon to be installed were awarded as follows: General Electric Co., of New York, through its New Orleans agency, contract for 70 arc lights, at $2,292; Stanley Instrument Co., Great Barrington, Mass., 250 electric light meters, at $2,242; A. M. Lockett & Co., New Orleans, contract for 187 Worthington water meters, at $1,923.

NEW PROVIDENCE, TENN.—Board of Trustees of the Oddfellows' Home will install a steam heating, light and power plant at a cost of $5,000.

MARION, IND.—Citizens' Light & Heating Co. has been granted 25-year franchise by the City Council.

BRIGHTON, MICH.—Chicago capitalists have secured options on about 2,000 acres of land in Green Oak and Hamburg Townships, which give three miles of water privileges on the Huron River. Surveys have been made in that vicinity recently, looking to location for dam and electric power-house.

LANSING, MICH.—The Pritt Power & Heating Co. has been organized here with $500,000 capital to take over the heating and power business of A. A. and F. B. Piatt. It is intended to improve the water-power, and to extend the heating mains. A. A. Piatt is Pres., and F. B. Piatt Secy.

LESLIE, MICH.—Electric light plant that supplied this village is stated to have been destroyed by fire Aug. 13.

CHICAGO, ILL.—Edw. B. Ellicott, Cy. Electrician, writes that bids will be received Aug. 31 for condensers and pumps for 2,000 HP. plant; bids will also be received for traveling crane.

Sketches have been begun by the City Architect for an electric light station to be built on Fullerton Ave. and the north branch of the river for the Department of Electricity. It will be 1-story, of steel, brick and stone, with tile roof, and will supply 1,500 arc lamps. It will cost $100,000.

FOND DU LAC, WIS.—It is reported that Fond Du Lac Water Co. will put in an electric plant for operating its pumping station.

DULUTH, MINN.—A hearing was held at Brainerd, Minn., Aug. 11, in regard to condemnation proceedings brought by the Minnesota Canal & Power Co., with the object of draining of water from the Rainy Lake country to the city of Duluth, to be used in an immense water-power plant. The company has increased its capital stock to $15,000,000. It is proposed to connect the lakes and rivers in the north by dams, and running the water into the St. Louis River and thence down to Duluth, where a fall of at least 600 ft. could be obtained.

WINFIELD, KAN.—See under Water-Works.

CLARKS, NEB.—Clarks Electric Light Co. has been incorporated by A. W. Chamberlain and J. A. Brown.

COLUMBUS, NEB.—Town may vote $15,000 for municipal lighting plant.

FREMONT, NEB.—Plans and specifications for enlarging city lighting plant have been adopted, and Board Public Works instructed to advertise for bids.

GENEVA, NEB.—Street lighting discussed.

SUTTON, NEB.—Street lighting under consideration.

WASHINGTON, MO.—The Tibbe Electric Co. will install an electric light and power plant. Plans and specifications have been made by Ruebel-Schwedtmann-Wells, Engrs., Chemical Bldg., St. Louis.

OKLAHOMA CITY, OKLA.—H. M. Byllesby & Co., of Chicago, Ill., have been appointed engineers for the Oklahoma Gas & Electric Co., and improvements and extensions to the gas and electric properties will shortly be undertaken.

MUSKOGEE, IND. T.—H. M. Byllesby & Co., of Chicago, Ill., have contracted to construct and erect an extensive high-pressure gas system for the Muskogee Electric & Gas Co.

HEALDSBURG, CAL.—Bids are asked by J. L. Bates, Cy. Clk., until Aug. 27 for furnishing power plant machinery for the city, consisting of boiler, engine, electric generator and appurtenances.

SUISUN, CAL.—Bids are asked until Sept. 26 for a franchise to construct and maintain poles and wires for the purpose of transmitting electric power, as applied for by Leonard Prior.

EUREKA, CAL.—The Humboldt Water & Power Co. will soon commence work on a gas plant. B. Von Homeyer is Pres. of the company.

BRIDGES.

WALTHAM, MASS.—Mayor recommends that a new bridge be built over the Charles River at Woerd Ave.

PAWTUCKET, R. I.—The contract for constructing a plate girder bridge across the Blackstone River was awarded to Lewis F. Shoemaker & Co., of Philadelphia, Pa., the lowest bidder, for $11,727. The bids were for the bridge complete, excepting the road surfacing and 330 ft. of rail. Prices of railing varied from $1.50 to $3 per ft. Frederick E. Shaw, of Providence, was awarded the contract for abutment and pier. Geo. A. Carpenter is Cy. Engr.

ALBANY, N. Y.—Bids are asked until Aug. 31 for the completion of the stone arch over Canastota Creek northerly from the north line of Chappel St., in the village of Canastota, N. Y., and completing the same on or before Oct. 1. Plans may be seen and general instructions for bidders, blank forms for proposals, specifications and contract forms may be obtained at the office of the Superintendent of Public Works at Albany, N. Y.; at the office of Thomas Wheeler, Asst. Supt. of Pub. Wks., Syracuse, N. Y., and at the offices of Houston Barnard, Asst. Supt., at Rochester and Buffalo, N. Y. Charles S. Boyd, Supt. Pub. Wks.

SCHENECTADY, N. Y.—The contract for building a steel bridge over Cotton Factory Hollow, at the intersection of Hulett and Strong Sts., for the purpose of extending the trolley tracks to the Ninth Ward, has been awarded by the Schenectady Railway Co. to the Pennsylvania Steel Co., of Steelton, Pa. The bridge will be 650 ft. long, and will be supported upon several piers. It will carry two tracks, and will be used for trolley purposes only. The contract price of the bridge has not been made public. Work of construction will be started at once.

NEWARK, N. J.—A new iron bridge is to be built across the Passaic River at Delavan Ave. The bridge will be of three spans, two fixed and a draw span. For the fixed spans the piers are 100 ft. from center to center, while the draw span is 258 ft. The foundations of the east abutment and river piers will be of piling and grillage, and the mason work will be either of stone or concrete. The superstructure will consist of three riveted single-intersection lattice trusses. The roadway will be 40 ft. in the clear and there will be two sidewalks 7½ ft. wide. The pavement will be wood blocks or asphalt. Fred W. Dash, Engr., of Jersey City, is in charge. The bridge is to be built jointly by the Essex and Hudson Counties.

PATERSON, N. J.—Contract for the Arch St. bridge has been awarded to De Vogel & Collins and has been signed. Work probably will begin soon.

PITTSBURG, PA.—Major W. L. Siebert, U. S. Engrs., has received an order from Secretary of War Taft stating that the old wooden bridge across the Mononghahela River at Brownsville must be raised 52 ft. above the pool level, and that the channel span must be 390 ft. This order will probably mean the total destruction of the old bridge. If the same ruling is adhered to, it is probable that other bridges in the vicinity will have to be raised.

WASHINGTON, D. C.—W. J. Douglas, Dist. Engr. of Bridges, has begun preliminary work on the construction of the Anacostia bridge by boring to ascertain necessary length of permanent piles. The engineer is working on the plans for the structure.

WASHINGTON, D. C.—Plans are being drawn for the erection of two large steel bridges over the Baltimore & Ohio Railroad yards, one on the line of New York Ave. and one on the line of T St.

Congress will be asked to appropriate $40,000 for replacing the K St. bridge over Rock creek with a modern structure, and $100,000 for constructing an arch to carry 16th St. over Piney Branch.

TOWSON, MD.—Bids are asked by the Highways Commission of Baltimore County, Court House, until Sept. 8, for the construction of three railway bridges and three reinforced concrete bridges; also for the construction of a macadam road, consisting of about 9,000 cu. yds. of excavation, 2,600 cu. yds. of broken stone, 55,000 sq. yds. of 4-in. macadam in place, etc. H. G. Shirley, Engr. (Advertised, Engineering News.)

DANVILLE, VA.—Council has appropriated $30,000 for the erection of a bridge across the Dan River. Bids will be asked.

ATLANTA, GA.—The Baltimore Ferro-Concrete Co. was the lowest bidder for constructing Magnolia St. bridge, at $15,500.

Special Council committee has voted to accept the proposition made by the Louisville & Nashville Ry. system to purchase from the city Waverly Pl. for $50,000. This sum will be used by the city as its share of the expense of erecting a viaduct connecting Washington St. with Gilmer St.

ATHENS, GA.—The County Commissioners have decided to build two large steel bridges, one over Elk River at Redus shoal, and the other over Limestone creek, at the Huntsville and Brown ferry road.

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MONTGOMERY, ALA.—Montgomery Road & Bridge Co. and the Montgomery Bridge Co. have consolidated. H. E. Williams, of Chicago, is Pres. of the former, and W. H. Converse, of Chattanooga, Tenn., is Pres. of the latter. Both companies were organized several weeks ago for the purpose of building a steel highway toll bridge across the Alabama River near this city. Both companies have been authorized by Congress to span the river.

SCOTTSBORO, ALA.—The contract for constructing seven steel bridges was awarded by the County Commissioners to the Converse Bridge Co., of Chattanooga, Tenn. Cost, $13,447.

AKRON, O.—The Board Public Service awarded the contract for building the superstructure of the [illegible] St. bridge to the Variety Iron Co., of Cleveland, for [illegible]

CINCINNATI, O.—Bids are asked by the Board Public Service until Sept. 6 for the superstructure of a viaduct in connection with the improvement of right of way for Grandin Road Viaduct over Delta Ave., consisting of five spans 98 ft. and seven spans 42 ft. center to center of columns, and two girder spans 26 ft. 7 ins. each at east and west abutments. Superstructure to be 840 ft. 2 ins. end to end of buckle plate floor and 935 ft. end to end of approach walls, etc. J. P. Gerstle, Acting Clk. (Advertised, Engineering News.)

CLEVELAND, O.—Bids are asked by Secretary Board of Public Service until Sept. 1 for all grading, made necessary for the separation of grades at the Detroit St. crossing of the N. Y. C. & St. L. Ry. Also the building of retaining wall and foundation for the bridges over the railway. A. R. Calow, Secy.

MT. VERNON, O.—Bids are asked until Sept. 3 for building the superstructure for a bridge in Brown Township. O. A. C. Collins, County Audr.

SAGINAW, MICH.—$71,000 of bonds for Sixth and Center St. bridges have been sold.

INDIANAPOLIS, IND.—E. M. Graves submitted the lowest bids for building a bridge over Fall Creek at Northwestern Ave. For a stone arch bridge, $63,000; for a concrete steel or Melan arch bridge, $44,848. He was awarded the contract at the latter figure.

WABASH, IND.—Bids are asked until Sept. 5 by W. S. Davis, Audr., for (1) repairs on Mt. Vernon bridge across Mississinewa River at Mt. Vernon pike, consisting of new floor and new steel stringers; flooring to be of good quality sound oak. (2) Repairs on Belden bridge at Belden, Ind., consisting of new floor and stringers, all to be of good quality of oak; two side rails to be of 1½-in. gas pipe. (3) For cleaning the following bridges; paint to be furnished by the county: Belden bridge, Belden, Ind.; Lagro bridge, Lagro, Ind.; Holland bridge at Holland, Ind., and Red bridge at mouth of Josina Creek, Liberty Township, Ind.

DELPHI, IND.—Bids are asked until Sept. 7 by Fred. H. Engel, Audr., for the construction of stone or concrete piers and abutments for the two bridges, as follows: One bridge in Tippecanoe Township across the Tippecanoe River at Maxin's Ford, and one in Clay Township over Wild Cat Creek near Owasco (contract for substructure will not be let at this time).

LA PORTE, IND.—Bids are asked until Sept. 6 by Charles H. Miller, Audr., for repairs of Iron bridge and new abutments of the Waterford bridge, and let the contract for all material, labor, construction and erection of the Waterford bridge in Coolspring Township.

ROCKVILLE, IND.—Bids are asked until Sept. 5 by Henry Grubb, Audr., for a cement arch near Lodi, Liberty Township.

RICHMOND, IND.—Commissioners have awarded contracts for the construction of the Yountsville bridge to the Attica Bridge Co.; the Daugherty Pl. bridge and the Walnut Fork bridge to the Anderson Bridge Co. The contract for the abutments for these bridges was awarded to George B. Lynch.

VERSAILLES, IND.—Bids are asked by Commissioners of Ripley County until Sept. 5 for the construction of a wagon bridge over Pipe Creek. Nicholas Volz, Audr.

CROWN POINT, IND.—Michael Gummer, Audr. Lake County will receive bids until Sept. 20 for the construction of a stone arch, and for a stone and iron bridge.

SALEM, IND.—Bids are asked by Washington County Commissioners until Sept. 5 for construction of three steel bridges; also for repairing the Purlee bridge in Pierce Township and the bridge over Honey creek, in Posey Township, by laying new floors. Frank E. Morris, County Audr.

PEORIA, ILL.—Plans and specifications for new bridge that will be erected over the Illinois River at Bridge St. have been received here. Bridge will be of steel construction, with total length of 2,387 ft. Bids for this work will be called for upon acceptance by Council.

MILWAUKEE, WIS.—A contract for construction of the second section of foundation piers for the Washington Ave. viaduct was let by the Board Public Works to A. F. Bues, at $12,980.

SOBIESKI, WIS.—J. J. Hof, Secy. Town Bd. of Little Suannco, Oconto County, Wis., and Pres. Hof Land Co., writes us that it is proposed to build a concrete arch bridge, to be about 100 ft. wide. The distance between abutments will be 55 ft. The bridge is to be 19½ ft. wide. Information regarding the construction of such bridges is wanted at once.

KANSAS CITY, MO.—Lydia Ave. viaduct has been agreed upon by representatives of the city and three railway companies. It will cost about $200,000.

Upper house of Council has passed franchise granting the Kansas City Viaduct & Terminal Co. right to construct a toll bridge from Sixth and Bluff Sts. across the west bottoms to a point in Kansas City, Kan. The total cost of the bridge will be about $2,250,000. Alderman Woodson may be addressed.

WARRENSBURG, MO.—Bids are asked by Johnson County Clerk until Sept. 6 for constructing 22 steel bridges. W. H. Burford, Rd. and Bridge Comr.

OKLAHOMA.—Gerard H. Matthes, Sulphur, Ind. Ter., Engr., U. S. Geological Survey, writes us that contracts have been awarded by the Secretary of the Interior for the construction of 27 steel highway bridges in Caddo and Comanche Counties, to the following companies were the lowest bidders: Virginia Bridge & Iron Co., of Roanoke, Va., 18 bridges; Springfield Bridge & Iron Co., of Springfield, Ill., eight bridges; Pan-American Bridge Co., of Newcastle, Ind., one bridge. Total tonnage is approximately 537½ tons. Total contract price is $53,793. Cost of construction will be paid from the funds derived from the sale of Town Lots at Lawton and Anadarko, Aug., 1901, in accordance with the provisions of the acts of March 3, 1901, and June 30, 1902.

NORMAN, OKLA.—It is reported that a stock company is being organized here to build an iron bridge across the South Canadian River that would cost $15,000.

EVERETT, WASH.—We are informed that the Superior Court of Snohomish County, Wash., has decided that the

Council exceeded its authority in the award of the contract of the Snohomish River Bridge to A. C. Goeris. Plans will be drawn and bids readvertised. The bridge will be a steel structure, with a 230-ft. draw and two 121-ft. fixed spans, with concrete piers. W. D. Barkhuff is Cy. Engr.

EVERETT, WASH.—Plans for a bridge across Snohomish River have been prepared by C. S. Bihler, Engr. for the city.

PORTLAND, ORE.—The steel bridge over Marquam Gulch, on Front St., is to be built at cost of $58,315. The Pacific Construction Co., of San Francisco, has been awarded the contract.

LOS ANGELES, CAL.—Bids are asked by Los Angeles County Commissioners until Aug. 29 for construction of combination timber and steel bridge. Plans and specifications on file with C. G. Keyes, County Clk.

RIVERSIDE, CAL.—Contracts for bridge over the Santa Ana River between this city and West Riverside are as follows: Riverside Foundry & Machine Works, pile driving, $676, and concrete abutments, $2,667; H. S. Farnsworth, Los Angeles, floor system, $4,477; Clinton Bridge & Iron Works, Clinton, Ia., steel work, $7,858. Bridge will be of steel, 500 ft. long, with five spans and four piers. It will be of the style known as the "Platt truss."

SAN RAFAEL, CAL.—Bids are asked by Robt. E. Graham, County Clk., until Sept. 6 for the reconstruction of two highway bridges on the county road leading from Marshalls to Petaluma, crossing Salmon Creek.

YUBA CITY, CAL.—Bids for building a wooden pile trestle across the Tisdale weir on the Sacramento River below Meridian were received, as follows: Jenkins & Wells, $7,240; Darby Laydon, $6,500; Dundon Bridge & Construction Co., $5,826; Cotton Bros. Co., $6,754. All bids were rejected as excessive. The Board will have the trestle constructed by day's work under the supervision of Guy McMurtry, County Surveyor.

Bids are asked until Sept. 6 for the construction of a frame trestle over Pleasant Grove Creek, near Pleasant Grove.

SANTA CRUZ, CAL.—Supervisors of Santa Cruz County and San Benito County will erect a steel bridge, supported on concrete piers. Cost, $10,000. Bridge will be 20 ft. wide and 200 ft. long.

CASTLEDALE, UTAH.—Bids are asked by the County Commissioners until Sept. 5 for building a wagon bridge over Cottonwood Creek, on the county road between Castledale and Orangeville. It will be a two-span bridge, each 40 ft., with 14-ft. driveway. Plans and specifications are on file with County Clk., E. W. Fox, Jr.

IDAHO CITY, IDAHO.—Bids are asked by County Commissioners until Sept. 12 for construction of a bridge across Lake Fork.

BUILDINGS.

BURLINGTON, VT.—Champlain Mfg. Co., City, has been awarded the contract for the University of Vermont medical college building. It will cost $100,000.

BOSTON, MASS.—Geo. A. Fuller Co., of New York, has the contract to build the Siegel department store at Washington and Essex Sts. Winslow & Bigelow are Archs. Total cost will be nearly $5,000,000, it is reported.

Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until Aug. 30 for installing a hot water heating system in building No. 105, Navy Yard, Boston. H. T. B. Harris, Paym.-Gen.

FALL RIVER, MASS.—Israel Picard & Son were lowest bidders for Eastern Ave. school building, at $42,500, for either granite or limestone construction.

BROOKLYN, N. Y.—Theo. A. Taylor, Pres. Masonic Guild, writes that plans have not been formulated yet toward building a Masonic temple here. Steps probably will be taken next month.

BROOKLYN, N. Y.—Bids are asked until Sept. 2 by James H. Tully, Comr., Dept. Pub. Charities, for the erection of fireproof balconies for the Female Building, New York City Home for Aged and Infirm, Brooklyn Division, Kings County Hospital Grounds, Flatbush.

Bids are asked by C. B. J. Snyder, Supt. Bldgs., Dept. Education, until Sept. 6, for installing heating and ventilating apparatus in new Public School 146, 18th and 19th Sts., south of Sixth Ave., Brooklyn. Also bids at same date for the erection of temporary school buildings on the southerly side of Manhattan approach to the Williamsburg Bridge, as follows: No. 1, Ridge to Pitt St.; No. 2, Pitt to Willett St.; No. 3, Willett to Sheriff st.; No. 4, Sheriff to Columbia St.; No. 5 Columbia to Cannon St.; No. 6, Lewis to Goerck St., Boro. Manhattan.

NEW YORK, N. Y.—D'Oench & Yost, Archs., 289 Fourth Ave., write us that general contract has been awarded to Deisler & Stevenson, 1133 Broadway, City, for the Sevilla Home for Children that will be erected in the Bronx. Cost of building is $120,000, and equipment $40,000 additional. Brick, iron, terra-cotta, tile; three stories.

P. J. Carlin Construction Co. has been incorporated with $100,000 capital. Directors, J. P. Carlin and H. V. Carlin, of New York; and J. J. Carlin, of Brooklyn.

Ambrosius & Herzog, 332 East 14th St., are reported to have started plans for a brick, stone, terra-cotta, concrete, iron and steel, fireproof theater for the Star Realty Co., 2 West 117th St. It will cost about $250,000.

Bids will be received by Boehm & Coon, owners, 31 Nassau St., for the 12-story apartment house, 204 x 90 ft., that will be erected on Central Park West, 73d to 74th Sts. Fireproof construction, exterior of Indiana limestone and light cream-colored brick, copper roof, and ornamental bronze doors and balconies, six electric elevators and telephones for each apartment. Clinton & Russell, of 32 Nassau St., are Archs.

Lynch & Orchard, 1 West 34th St., will receive bids for the Holy Name Parish School, Rev. John J. Kean, rector, 207 West 96th St. Brick, stone and concrete, structural steel and iron, fireproofing, slate and gravel roofing, electric wiring and steam heat. Cost, $125,000.

NEW YORK, N. Y.—Plans have been filed with Superintendent of Buildings Hopper during the week ending Aug. 15 for the erection of new buildings in Manhattan at an estimated cost of $1,390,040. Alterations in old buildings are also planned to cost $136,350.

NEW YORK, N. Y.—Plans have been filed by J. Haaser, 1961 Seventh Ave., Arch., for two 6-story brick flats, 37 x 86 ft., at 60-64 West 128th St., for D. Hasp and another, of 9 West 117th St.; cost, $90,000.

By Turner & Kilian, Archs., 9 Maiden Lane, for 6-story brick flats, 52 x 87 ft., at 33-35 Seventh Ave., for the Second Associate Church of New York; cost, $500,000.

By C. B. J. Snyder, Arch. for Bd. Education, for a 4-story brick school, 150 x 200 ft., on 119th and 120th Sts., west of Seventh Ave.; cost, $250,000.

By E. L. Spencer, 350 Alexander Ave., Arch., for a 1-story stone and steel gas tank, 189 x 189 ft., for the Central Union Gas Co., same address; cost, $100,000. It will be erected on 136th and 137th Sts., Walnut and Locust Aves.

By G. F. Pelham, Arch., 503 Fifth Ave., for a 6-story brick flat and stores 44 x 100 ft., at 108-110 East Second St., for A. Silverson, 190 Broadway; cost, $52,000.

By Shipley, Rutan & Coolidge, of Boston, for a 1-story brick power house, 40 x 57 ft., on 67th and Exterior Sts., and for a 2-story brick animal house, 38 x 36 ft., on Exterior St., for Rockefeller Institute of Medical Research, 5 West 58th St.; cost, $50,000.

NEW YORK, N. Y.—Contract for the general construction of the Stuyvesant High School, First Ave. and 15th St., was awarded to the P. J. Carlin Construction Co., 26 Court St., Brooklyn, at $615,000. General construction of Erasmus Hall High School, Brooklyn, awarded to John Thatcher & Son, 54 Park Ave., $267,600. General construction of addition to and alterations in P. S. 4, Queens, to Alfred Nugent & Sons, 508 East 117th St., $147,000. General construction of 38, Manhattan, to the P. J. Carlin Construction Co., $305,000.

Bids are asked by Nicholas J. Hayes, Fire Comr., 157 and 159 East 67th St., until Aug. 30 (No. 1), for the erection of a building for Engine Co. No. 7 and Hook and Ladder Co. No. 1, on Duane St., west of Broadway, Manhattan. (2) For the plumbing, gas and electric systems and (3) for a heating system for this new building. (4) For alterations and repairs to quarters of Engine Co. 44, at 221 East 75th St., Manhattan. (5) For additions and alterations to quarters of Engine Co. 50, at 749 East 166th St., Bronx.

ROCHESTER, N.Y.—Bids are asked by the State Commission in Lunacy, Albany, until Sept. 7 for the construction of a store-house and conduit, bakery, extension to laundry and fire escapes on present buildings at the Rochester State Hospital. T. E. McGarr, Secy. (Advertised, Engineering News.)

RUSH, N. Y.—Contracts for 16 cottages at the new State Industrial School plant was awarded to the Schenectady Engineering & Construction Co., at $94,614. This firm was also the lowest on the electrical wiring, at $1,840. R. T. Ford was awarded contract for heating and plumbing work, at $25,800.

HOBOKEN, N. J.—Bids will be received on Aug. 29 for the emigrant station that will be built by the Delaware, Lackawanna & Western Ry. Co. We are informed that it will be two stories, 100 x 90 ft., fireproof. Kenneth M. Murchison, Jr., 5 West 31st St., is the Arch. Bids will be received in several months time for the large terminal here for the same company. It will be 600 x 260 ft., practically fireproof throughout, of steel and concrete, two stories high. Plans are now under way for this work by Mr. Murchison.

PULASKI, PA.—It is reported that a $100,000 hotel and sanitarium will be erected near this place by the Pennsylvania Hotel & Sanitarium Co., recently organized by Pittsburg capitalists. G. M. Koser is said to be interested.

DU BOIS, PA.—C. W. Goodyear and H. H. Gardiner, of Buffalo, Vice-Pres. and Gen. Supt. of the Buffalo & Susquehanna Railroad, have arranged for the erection of a $100,000 station here, it is reported.

PHILADELPHIA, PA.—Kendrick & Roberts, City, were lowest bidders, at $79,777, for construction of the building for the Marine Corps at Broad St. and Washington Ave. Rankin, Kellog & Crane, City, are the Archs.

SOMERSET, PA.—Bids were received for the proposed new Somerset County Court-house, as follows: Andrew Doll & Son, Cleveland: Cleveland stone, $351,663; limestone, $347,000; granite, $417,000. Brady Construction Co., Fairmount, W. Va.: Cleveland stone, $304,833; Hummelstown stone, $249,833; limestone, $249,733. Caldwell & Drake Co., Columbus, Ind.: Cleveland stone, $249,344; limestone, $247,444; granite, $314,544. A. & S. Wilson Co., Pittsburg: Cleveland stone, $314,900; local stone, $344,980; Hummelstown stone, $356,670; Potsdam stone, $376,720; limestone, $307,800; granite, $384,300. A. F. Withrow, Charleston, W. Va.: Cleveland stone, $288,000; local stone, $239,000; limestone, $278,000. Charles McCaul & Co., Philadelphia: Cleveland stone, $306,000; Hummelstown stone, $307,608; limestone, $305,000; granite, $365,000. It is said that bids were over $50,000 higher than estimated.

WASHINGTON, D. C.—Our correspondent writes that, according to the annual report of the Inspector of Buildings, D. C., the valuation of new buildings erected in the District during the fiscal year ending June 30, 1904, was $12,033,916, with $928,904 spent on repairs and $54,755 on elevators and vaults, a total of $13,017,517. As this includes $5,000,000 for the permit value of the new Union Station, while the valuation for the fiscal year ending June 30, 1903, was $11,584,603, the figures show a falling off in private construction of $3,467,086, judged to be largely due to the high price of building material and labor. The number of buildings erected in 1904 was 1,386. There are in the District 46,468 brick buildings, 20,961 frame buildings and 14,361 sheds. The figures given above do not include Government buildings being erected, such as extensions to St. Elizabeth's Asylum, the Army War College, the Engineer School, House of Representatives' offices, National Museum, Bureau of Standards, Naval Hospital, etc.

Contract for Thos. T. Gaff's $100,000 residence, at 20th and Q Sts., N. W., has been let to Richardson & Burgess, Colorado Bldg. Brick and stone, fireproof, marble and iron work, heavy columns, tiling, hot water heat, etc. Bruce Price and J. H. De Sibour, 1133 Broadway, New York, are Archs.

BALTIMORE, MD.—James Stewart & Co., 319 North Charles St., have been awarded the contract for the Baltimore & Ohio Ry. Co.'s Camden warehouse. Brick and steel, eight stories, 50 x 416 ft. Cost, $200,000.

Geo. A. Fuller Co. has been granted permit to build the annex to Hutzler Bros.' store on Clay St. and Kimmel Alley. Five stories and basement, brick and stone. Cost, $80,000.

Trustees of the Church Home and Infirmary, Broadway and Fairmount Ave., are reported to have awarded contract to the Woodruff-McLaughlin Co., 100 East Lexington St., for the construction of addition to hospital, after plans and specifications by Wyatt & Nolting, Archs., Builders' Exchange Bldg., 2 East Lexington St. Two stories, with basement and sub-basement, 43 x 108 ft., brick with terra-cotta and limestone trimmings, concrete foundation, granite base, steel beams and girders, cast-iron columns, slate roofing, galvanized iron cornice, interior marble and tile work, cast-iron stairway, electric wiring and fixtures, sanitary plumbing, steam-heating system, power elevator. Electrical work, plumbing, heating system and elevator not included in contract.

W. J. Beardsley, Arch., 28 West Lexington St., has prepared plans and will receive bids for a 7-story hotel, to be erected at St. Paul and Franklin Sts. It will be fireproof throughout, 60 x 90 ft. It will have a complete basement in addition to the seven stories, and will contain 108 rooms, most of them with baths. Estimated cost, $150,000. Wrought iron balconies will be erected on the third and seventh floors. The fronts will be of gray-facing bricks on the first, second and seventh and buff brick on the remaining stories. Cosmic tiling will be used on all the walls and floors of the public corridors; on the walls to the height of 4 ft. 6 ins. from the floor. The same tiling also will be used on the dome, roof, stair-walls and elevator shafts.

Wyatt & Nolting, Archs., estimate that $75,000 will be needed to repair court-house. Ordinance will be drafted. Council has appropriated $150,000 of the Western Maryland fund to make the necessary repairs.

NORFOLK, VA.—It is stated that the largest marine barracks in the country will be erected at the Norfolk Navy Yard. Brig.-Gen. Elliott, Commandant of the U. S. Marine Corps, has the matter in charge.

LOUISA, VA.—Bids are asked until Sept. 3 for the erection of a county court-house. J. J. Porter, County Clk. D. Wiley Anderson, Arch., Richmond, Va. W. T. Mead, Chn. Bd. of Supervisors.

CHARLESTON, S. C.—W. N. Aiken, of Aiken & Bruner, Archs., New York, has been engaged to prepare plans for remodeling the present City Hospital at cost of $100,000.

GREENVILLE, MISS.—Bids are asked until Sept. 10 for erecting a public school building. W. Yerger, Mayor. Kenneth McDonald & J. F. Sheblessys, Archs., Louisville, Ky.

NEW ORLEANS, LA.—Albert Mackie Grocer Co. will erect on the site of the old Alabama Warehouse a $100,000 modern storeroom building.

NASHVILLE, TENN.—Corner Realty Co. will erect a 12-story building at Cherry and Church Sts. It will be a fireproof building, of brick, stone and steel. Cost is estimated at from $150,000 to $300,000.

GREENVILLE, TENN.—Bids are asked by James Knox Taylor, Supervis. Arch., Treas. Dept., Washington, D. C., until Sept. 19 for the installation of a conduit and electric wiring system for the U. S. Post Office and Court House.

WASHINGTON, D. C.—Bids are asked by James Knox Taylor, Supervis. Arch., Treas. Dept., until Sept. 20 for the construction, including plumbing, heating, gas piping, conduits and wiring of the West Outbuilding, Bureau of Engraving. (Advertised, Engineering News.)

CHICAGO, ILL.—Bids are asked until 3 p. m., Aug. 26, by R. B. Williamson, acting Arch., Bd. of Education, 730 Tribune Bldg., for a school building, to be erected at Throop and 60th Sts. Cost, $150,000.

W. G. Kreig, Arch., 84 Washington St., is preparing plans for a flat building, to be erected at Ainslie and Evanston Aves. for John Duncanson. Three stories, of brick and stone, plate glass, steam heating, iron and steel work, combination lighting fixtures. Cost, $80,000.

Thompson, Starrett & Co., General Contractors, have let the following contracts on the Chicago Orchestral Association building, 168 Michigan Ave.: D. H. Burnham & Co., Archs.: Plumbing, R. J. Powers, 81 Quincy St.; heating and ventilating, L. H. Prentice Co., 26 Sherman St.; cut stone, Edwards & Ward, Fullerton Ave. bridge, terra-cotta, Northwestern Terra-Cotta Co., Clyburn Ave. and Wrightwood. Cost, $300,000.

Work has been begun on plans for alterations in the 4-story building occupied by Carson, Pirie, Scott & Co., at Washington and State Sts. Alterations will involve an expenditure of $200,000 or more, and will include changing the store front on the ground floor, the addition of two stories to the old building and the installing of a new elevator service.

Frost & Granger, Archs., 184 La Salle St., write that nothing has yet been determined upon regarding the Northern Trust Co.'s 12-story bank and office building, reported last week.

EAST ST. LOUIS, ILL.—Erection of $75,000 high school building for Union School District No. 1 has been postponed. A. B. Frankel is Arch.

WINNETKA, ILL.—Bids are asked until Sept. 5 for building a new brick schoolhouse. Henry F. Thurston, Secy. Bd. Education.

ANN ARBOR, MICH.—Alumni of the University of Michigan is arranging to build a memorial hall, to cost not less than $100,000, for which subscriptions are being received. Address E. W. Pendleton, 900 and 901 Union Trust Bldg., Detroit, or Geo. H. Hopkins, 48-54 Bates St., Detroit, for further details.

MILWAUKEE, WIS.—Louis Buade, Wm. Upmeyer, Alfred G. Schilz and others forming a syndicate, have purchased site at Astor and Biddle Sts., and will erect a $100,000 apartment house when plans are prepared.

Plans for North Side high school building will be prepared. Cost, $130,000.

WAUSAU, WIS.—Hanson Bros., Chicago, were lowest bidders for post-office and public building, at $43,341.

DES MOINES, IA.—Bids are asked until Sept. 9 by the State of Iowa Capitol Commission for the restoration and repairing of the Iowa State Capitol building. Architects, Hallett & Rawson, Des Moines. Copies of the specifications and plans may be obtained upon deposit of $50. F. D. Harsh, Secy. Comn., Crocker Bldg., Des Moines, Ia., may be addressed. Separate bids will be received for scagliola work, also ornamental ceilings, both in plaster and combination of metal and plaster. Bids will also be received on coal bunkers, alley pavement, etc., for state boiler house on same date as above. A. B. Funk, C. A. Cumming, E. P. Schoentgen, Comrs.

FT. SNELLING, MINN.—Bids are asked by R. M. Schofield, Q.-M., St. Paul, until Sept. 3 for installing electric fixtures in buildings at Ft. Snelling.

HOT SPRINGS, ARK.—Z. Davis, 79 Dearborn St., Chicago, has awarded general contract for a grand-stand and racing plant, to be erected here, to R. & S. Sollitt Co., 140 Dearborn St., Chicago. Cost, $600,000.

FARMINGTON, MO.—Bids are asked until Aug. 30 by Board of Managers of State Hospital No. 4 for the erection of brick hospital building. R. H. Hohenschild, Arch., Rolla, Mo.

ST. LOUIS, MO.—Board of Public Improvements has awarded the contract for the erection of the Poorhouse hospital to Q. W. Harkett, at $47,500.

SOUTH McALESTER, IND. T.—The Busby Hotel Co. has had plans prepared for a new hotel building to cost about $100,000 that will be erected here.

ALBA, TEX.—Contract has been awarded to the Wood County Investment Co. for the construction of a new court house here. Cost, $60,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

OKLAHOMA CITY, OKLA.—Contract has been let to the Gross Construction Co., City, for the construction of a new court house. Cost, $100,000.

OKLAHOMA.—Gerard H. Matthes, Dist. Engr., Sulphur, Ind. T., writes that plans and specifications have lately been completed for the construction of nine public buildings to be erected in Oklahoma by the Department of the Interior from the Town Lot Funds under the acts of March 3, 1901, and June 30, 1902. The buildings, which were designed by Mauran, Russell & Garden, Archs., of St. Louis, Mo., are as follows: One court house and one jail building in each of the cities of Lawton, Anadarko and Hobart; one 4-room and one 8-room school buildings in the city of Lawton; one 8-room school building in the city of Hobart. Bids for the construction of these buildings will be called for at an early date, and will be advertised in Engineering News. The contract includes the moving of steel jail cages now in use in the county jails into the new jail buildings.

NORTH BEND, ORE.—Father Donnelly will erect a new hospital here. The main building will be 100 × 39 ft., it is reported.

OAKLAND, CAL.—Plans and specifications will be received by the Board of Education until Sept. 30 for brick or stone schoolhouse buildings as follows: 22-room building, known as the Franklin School lot, cost $145,000; 22-room building, known as the Lincoln School lot, front on Alice St., cost $145,000; 22-room building, on Prescott School lot, front on Campbell St., cost $145,000; 5 or 8-room on Grove St. School lot, cost $28,000; an addition of from eight to ten rooms to the Lafayette School building, cost $38,000; an addition of from 14 to 16 rooms to the Grant School building, cost $81,000; for a building of from nine to ten rooms to be located on Market St., cost $72,000; for a building from nine to ten rooms on land north of Bushrod Park, cost $72,000. The architect's estimate for the cost of each building must include the premium for plans and specifications, the fee of the architect, the cost of supervision, heating system and all other apparatus and requirements. J. W. McClymonds. Secy.

SAN FRANCISCO, CAL.—The Humboldt Savings Bank will erect on Geary St., near Kearny, an office building on the site now owned by the bank. Cost, about $150,000.

WATER SUPPLY AND IRRIGATION.

AUGUSTA, ME.—W. B. Getchell, C. E., writes us that surveys are being made for a new water supply from Carleton Pond. The distance is about eight miles. Pumping engine will be required.

BRANDON, VT.—We are informed that nothing definite will be done toward betterment of village water supply until next spring, as it is necessary for village to have its charter changed somewhat before work can be undertaken. A. C. Grover, Rutland, Vt., is Des. Engr.

CLINTON, MASS.—Water Commissioners are planning to have about 200 services equipped with meters.

UXBRIDGE, MASS.—It has been voted to construct a well on Croney Brook land and to lay a suitable pipe to the present town reservoir.

WOONSOCKET, R. I.—E. W. Kent, Supt. W.-W., writes that no steps have been taken on question of new pumping, etc., except to ask for appropriation.

SOUTH NORWALK, CONN.—Stephen S. Hatch, Water Commissioner, writes us that this city has just appropriated $60,000 for a filter. The Commissioners have engaged H. W. Clark, of Boston, to design plant and furnish plans, and these will be ready in three or four weeks.

BUFFALO, N. Y.—Dark & Co., at $24,900, were low bidders Aug. 16 for building Pearl St. pipe line.

ITHACA, N. Y.—Local Water Board, according to reports, has decided to stop all negotiations with Ithaca Water-Works Co., and to go ahead drilling artesian wells to furnish city with water supply.

NIAGARA FALLS, N. Y.—Special election will probably be held on or before Sept. 8 to vote on raising $764,000 by a bond for the erection of a new water-works plant to be entirely under municipal control, and to obtain a pure water supply from the Canadian channel of the Niagara River. Walter McCulloh is Cy. Engr.

WATERLOO, N. Y.—Special Committee, A. M. Patterson, Chn., in its report is stated is offer recommendation of its engineer that entire new water-works system be constructed at a cost of $190,000. This estimate provides for about 6,700 ft. more of pipe than is now in use, and erection of 850,000 gallon capacity reservoir above Seneca Lake.

POUGHKEEPSIE, N. Y.—Bids are asked by the State Commission in Lunacy, Albany, until Aug. 31, for the construction of covered masonry filters, pure water reservoir and appurtenances for the Hudson River State Hospital. Allen Hazen, Consult. Engr., St. Paul Bldg., New York. (Advertised, Engineering News.)

TONAWANDA, N. Y.—Wilson & Smith are reported to be considering plan for extension of service pipes by Depew Water Co., Depew, N. Y., along Military road to supply Elmerton.

CAMDEN, N. J.—Camden Iron Works was only bidder Aug. 16 for 30-in. main from Delair to Camden for this city.

EAST ORANGE, N. J.—Following bids were received by City Council Aug. 15 for furnishing 5,000,000-gallon centrifugal pump: Bellman & Sandford, $7,190; B. Franklin Hart, Jr., & Co., $8,004; George A. Williams & Co., $7,885; Runyon & Carey, $8,915; Buffalo Forge Co., $8,055; D'Olier Engineering Co., $8,150; L. K. Comstock & Co., $9,776; Ralph J. Bristol, $11,213.

SUMMIT, N. J.—By terms of new contract which city proposes to enter with Essex-Union Water & Light Co., latter agrees to lay 5,200 ft. of mains this year, besides making other improvements.

LANCASTER, PA.—J. Carpenter, Cy. Engr., writes that Mayor has signed ordinance authorizing city to enter into contract with Pennsylvania Maignen Filtration Co., Philadelphia, Pa., for city filtration plant.

HASTINGS, PA.—Melboy Water Co. has been formed by Chas. C. Anna, Benjamin F. Thomas and others to supply this place with water.

PHILADELPHIA, PA.—The Filbert Paving & Construction Co. is stated to have contract to construct a 100,000-gallon reservoir for the storage of water at Fifth St. and Washington Ave. for the Southwark Foundry & Machine Co.

PITTSBURG, PA.—South Pittsburg Water Co. has secured all plants, franchises, etc., of Chartier's Valley Water Co., and will, it is stated, proceed to make many improvements, chief of which will be the construction of an up-to-date filtration plant. The officers of the American Water-Works & Guarantee Co., which controls the South Pittsburg Co., are James S. Kuhn, Pres.; W. S. Kuhn, Treas. and Gen. Mgr., and J. H. Purdy, Secy.

MILL HALL, PA.—Council has been considering proposition from private parties for installing water-works.

STEELTON, PA.—Mountain View Water Co. has been chartered with $15,000 capital to supply this place. J. D. Landes, Mechanicsburg, Pa., and A. F. Brandt, Harrisburg, Pa., are interested.

WHEELING, W. VA.—Laying of 30-in. main through city is under consideration. Contractors are stated to have offered to do the work for $75,000.

SPENCER, N. C.—A. D. Smith and S. T. Dorsett, Com., will receive proposals for the engineering and construction of water-works and sewer system for the town. Bids will also be received for parties desiring to build and own the plant or for engineering the work for the municipality.

ASHEVILLE, N. C.—Kelly & Felthaus were awarded contract for French Broad pipe line for $3,197.

LAKELAND, FLA.—Bids are asked by Board of Public Works until Aug. 29 for one tower and steel tank, two pumps, cast-iron piping, hydrants, etc., for water-works plant; also machinery, etc., necessary for increasing capacity of electric light plant. D. H. Sloan, Secy.

TAMPA, FLA.—The Mayor writes us that there is some talk among the City Council of buying the existing water-works.

SELMA, ALA.—City is considering purchase of plant of Selma Water Co.

NEW ALBANY, MISS.—The Mayor writes that no arrangements had been made for constructing new town water-works. Bond issue recently voted for that purpose is to be sold Sept. 6. Est. cost of works is $20,000.

LUMBERTON, MISS.—We are informed that nothing further has been done toward installing water-works than to authorize sale of $25,000 bond issue. Proposed supply is to be obtained from creek, ½ mile distant from city. Mayor A. S. Hinton is official in charge.

SORIA, MISS.—Soria Water-Works Co. has been incorporated with $10,000 capital by J. L. Hall, W. B. Powers, I. I. Barber and others. (There is no post-office in Mississippi of above name.)

MINDEN, LA.—The town has voted in favor of issuing bonds for $36,000 for the purpose of constructing a system of water-works. Address A. M. Leary, Mayor, for particulars. The engineer is J. H. Thompson, 1606 Fisher Bldg., Chicago, Ill.

LOUISVILLE, KY.—G. W. Gosnell, Louisville, was awarded contract for putting in new hydrants in western part of city.

MANSFIELD, O.—See under Sewers.

MIAMISBURG, O.—Contract for proposed water-works building and construction of concrete pit for machinery was relet Aug. 11 to T. C. Brooks & Sons, for $11,500.

MASSILLON, O.—Massillon Water Supply Co. has submitted proposition to city offering to sell its plant for $315,000, or it will enter into agreement for 20 years' extension of its present contract.

AKRON, O.—Press reports state that franchise of Akron Water-Works Co. has been declared forfeited, and Council Committee will report on advisability of calling special election to vote on bond issue for constructing municipal water-works.

COLUMBUS, O.—Bids will be received by the State Board of Public Works, Columbus, until Sept. 13 for the permanent improvement of the banks and waste ways of the grand reservoir, situated in the Mercer and Auglaize Counties. Bids will be received for work, consisting of the strengthening of the East and West embankments by grading, and protecting the face of same either by stone or concrete paving. The rebuilding of the Solina Waste Weir and piling work for breakwater and foundations. Approximate est. cost, $30,000. Specifications, plans, maps and cross-sections, together with blank form of proposals, can be obtained at the office of the State Board, or the office of the Canal Collector, St. Mary's, O.

NEW ALBANY, IND.—Council has passed ordinance granting 25-year franchise to New Albany Water-Works Co.

CLARE, MICH.—Plans have been submitted by Sherman & Riggs., Engrs., Toledo, O., for a complete system of water-works and sewers to cost about $70,000. A special election will probably be called to vote on the question of bonding for the improvements.

ALTON, ILL.—New England Water-Works Co., in return for a new franchise of 25 years' duration, is stated to be ready to extend its mains, put in a new pump, a new settling basin, and to make other improvements. S. H. Gregory is Chn. Council Water Com.

BLOOMINGTON, ILL.—Council Water Committee, Maurice McCarthy, Chn., is investigating matter of laying a water main from the soft water wells near the Big Four tracks south, to the uptown districts.

SHELBYVILLE, ILL.—Local corporation has been formed, according to reports, under name of Shelbyville Heat, Water & Light Co., to take over franchise of present company, which expires this month.

YORKVILLE, ILL.—Contract for laying 2,330 ft. 6-in. and 3,330 ft. 4-in. standard cast-iron pipe has been let to John M. Healy, Chicago, Ill., for $3,956.

CHICAGO, ILL.—Bids are asked by Board Local Improvements, Andrew M. Lynch, Pres., for constructing water service pipes and water supply pipes in several streets.

CULLOM, ILL.—Water-works to be installed here.

APPLETON, WIS.—Water-Works Committee is stated to have recommended that the city build its own plant, and that $300,000 of bonds be issued for the construction of the system.

KIEL, WIS.—See under Sewers.

RICHLAND CENTER, WIS.—Bids will be received by the Asylum Commissioners until Aug. 30, for furnishing one deep well steam pumping engine, 2,746 ft. of 6-in. and 418 ft. of 4-in. cast-iron water pipe, 4 hydrants, together with valves and special castings. Specifications may be secured from W. G. Kirchoffer, Consult. Engr., Madison, Wis. Specification for the pump are on file at office of Engineering News, 220 Broadway New York.

GREEN BAY, WIS.—Council Committee has submitted to Green Bay Water Co. specifications prepared by City Engineer Reid for fire protection system, which calls for 32 miles of c. i. mains and 359 hydrants. Water company has asked for 30-year extension of its franchise, agreeing, in return, to put in fire protection system.

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FOND DU LAC, WIS.—Fond du Lac Water Co. has let contract for 12-in. wood rotary pump of [illegible] gallons per minute capacity, to John T. King, Agent, Madison, Wis. Pump will be operated by electricity.

WEST ALLIS, WIS.—Plans and estimates for a series of artesian wells are to be drawn up and may be submitted to the people of this village at a special election.

REDFIELD, IA.—We are informed that [illegible] of water-works is still under discussion.

DAYTON, IA.—Mayor J. A. Lindberg writes that proposed water-works improvements will require construction of new well.

WOODWARD, IA.—We are informed that this city expects to install water-works, and has decided on elevated tank system, with source of supply from wells.

PARKER'S PRAIRIE, MINN.—$8,000 of bonds have been voted for installing water-works.

WINFIELD, KAN.—Contract for installing $[illegible],000 water-works plant and a $30,000 electric lighting plant is stated to have been let to Burns and McDonnell, Kansas City, Mo., and E. L. Overton, Topeka, Kan., respectively.

KANSAS CITY, KAN.—Metropolitan Water Co. desires city to grant it new franchise, agreeing in return to purchase new pumps and install larger pipe lines. T. B. Gilbert is Mayor.

HAVRE, MONT.—Reports of Aug. 5 state that plans and specifications were being prepared by the city engineer for the water-works and sewer systems, for which bids will be called in about 15 days. The cost of the systems will be about $70,000.

GLASGOW, MONT.—Town voted Aug. 15 to issue $20,000 of bonds for building reservoir and laying mains. Supply will be obtained from Great Northern Ry Co. A. Mohan is Cy. Engr.

RAPID CITY, S. DAK.—The Chamber of Commerce of this city has under way a movement to get 60,000 or 70,000 acres of land under irrigation along Box Elder Creek. The plan is to build a large reservoir on Box Elder and catch water from that creek and also dig a ditch from Rapid Creek, which parallels Box Elder, thus having a continual supply. The matter has been taken up with the Government.

SIOUX FALLS, S. DAK.—Local business men may form campany to take over municipal plant, which, according to recent decision by the Court, cannot be completed by the city.

COLUMBIA, MO.—John S. Bicknell, Cy. Clk., writes us that improvements of water and electric light plant, for which $30,000 has been voted, will be in charge of Board of Public Works, W. H. Cook, Pres.

KANSAS CITY, MO.—Board Public Works will soon call for bids for installing three new pumping engines, two at Quindaro and one at Turkey Creek, and has directed S. A. Mitchell, Ch. Engr., to prepare plans, under which the proposals will be called.

NEVADA, MO.—City is to sell $90,000 of bonds, recently voted for municipal water-works.

CLARKSVILLE, TEX.—City is calling for bids until Sept. 1 for $30,000 of water-works bonds. John M. Butcher, Cy. Treas.

CLEBURNE, TEX.—Another artesian well may be sunk to assist water supply of city.

MONTROSE, COLO.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for construction of South Canal of Uncompahgre Valley Irrigation Project, and for construction of Gunnison Tunnel for same project. Bids for the former piece of work are asked until Sept. 15, and for the latter until Oct. 5, as is advertised in Engineering News.

SANTA FE, N. MEX.—Antonio Gomez is stated to have let contract for construction of large irrigation reservoir in the Red Canyon, 20 miles from Estancia, to J. W. Orchard.

ROCKFORD, WASH.—Installation of complete works for town under consideration.

WALLA WALLA, WASH.—Efforts are being made to increase water supply of this city.

SEATTLE, WASH.—City is taking bids until Sept. 3 for laying water mains in 5th Ave. and Prospect St., at estimated cost of $5,500, and in Colorado St., at estimated cost of $9,200. R. H. Thomson is Cy. Engr.

PORTLAND, ORE.—R. G. Lindstrom is stated to have been awarded contract for constructing reservoir No. 3 at $6,980, and reservoir No. 4 at $7,322.

PRAIRIE CITY, ORE.—Franchise for gravity water-works is said to have been let Joseph Reese.

PORTLAND, ORE.—Bids are asked by Water Board until Sept. 14 for furnishing cast-iron pipe and special castings as follows: 2,100 lin. ft. 4-in., per length, 20 tons; 23,000 ft. cast-iron pipe, Class D, weight 365 pounds per length, 350 tons; 2,200 ft. 8-in.; 3,800 ft. 10-in.; 5,200 ft. 12-in., and 80,000 lbs. special castings. Frank T. Dodge, Supt. W. W.

SALEM, ORE.—Citizens' Light & Traction Co. will, it is stated, have surveys made at once, for construction of water system, with supply from Silver Creek Falls.

NAPA, CAL.—Municipal ownership water-works and electric light plants under consideration. Council will bore well three miles north of city, and if satisfactory supply is secured may install pumping plant.

SAN DIEGO, CAL.—George A. d'Hernecourt, Cy. Engr., has been working on plans and estimates for the installation of a salt-water sprinkling plant. His report will call for the building of two large tanks on the heights of the city and the laying of salt-water mains along principal streets.

BENICA, CAL.—Improvements to local water-works are to be made at a cost of $100,000, according to reports. The lower dam is to be raised, and several repairs made on the large one. Pipe will be laid from the water-works along the Long Bridge to Army Posts, a distance of about 7 miles.

BIGGS, CAL.—Valley Counties Power Co. has had surveys completed for new reservoir near Powellton.

OAK PARK, CAL.—Oak Park Water Co. has let contract to Jenkins & Wells for water towers and tank for its new system for $4,723.

REDWOOD CITY, CAL.—Election may be held shortly to vote on $100,000 bond issue, part of which would go for extension of city's water main system.

GUERNEVILLE, CAL.—Redwood Water & Improvement Co. has been organized with $20,000 capital to supply water for this place.

SISSON, CAL.—Reconstruction of water supply system of this place is contemplated at an early date.

SAUSALITO, CAL.—Town Engineer Purcell has presented following estimate of cost of salt-water system for fire and street purposes: Pump of 75-gallon capacity, $150; 15-HP. induction motor, $580; 17,400 lin. ft. 6-in. c. i. water pipe, $17,955; 3,400 lin. ft. 8-in. c. i. water pipe, $5,100; 40 double hydrants, $1,080; 18 single hydrants, $425; 1,200 ft. 2½-in. double-jacket hose, $840; 4 hose carts, $160; water gates and fittings, $150; 650,000-gallon redwood tanks, installed, $2,550; fitting up present pump house, $100; sundries, $300; total, $29,690.

VACAVILLE, CAL.—Preliminary report sets cost of installing water-works for this place at $30,000. There would be required about 5¼ miles 8, 6, 4 and ½-in. pipe, 500,000-gallon reservoir, pumps of 200,000 gallons capacity and 50 hydrants.

FORT GRANT, ARIZ.—Estimates have been made setting cost of development of water for this place at $8,000. These include a deep-drilled well, equipped with a deep-well steam pump and a 50,000-gallon steel tank, pipe line extensions, a 25-HP. boiler and a pump house.

EMMETT, IDAHO.—Canyon Canal Co. is stated to have let contract for construction of headgate for its proposed irrigation works on the Payette to Ostrom & Forbes, for about $30,000.

IDAHO FALLS, IDAHO.—City voted Aug. 15 on $40,000 bond issue. $30,000 to be used to improve and extend the water-works system, and $10,000 to be used to install a 150-HP. engine, to be used in connection with the water and light plant.

AMERICAN FORK, UTAH.—Means are being considered, it is said, for increasing water supply of towns of American Fork, Lake and Pleasant Grove.

EAST TORONTO, ONT.—Bids are asked by W. H. Clay, Town Clk., until Aug. 29 for constructing force and supply main, consisting of 5,220 ft. of 12-in. cast-iron pipe, 1,760 ft. of 10-in. cast-iron pipe, also all necessary valves, valve boxes, chambers and special castings, etc. Bids are also asked for constructing intake pipe and pump well, requiring 1,800 ft. of 12-in. cast-iron pipe, also all necessary flexible joints, valves, steel pump well and steel intake screen. John Galt, Toronto, Engr.

THAMESVILLE, ONT.—Bids are to be called soon for water-works for this place, plans for same having been completed by John Galt, C. E., Toronto, Ont.

SUMMERSIDE, P. E. I.—Bids are asked by H. J. Massy, Town Clk., until Nov. 1 for construction of system of water-works and sewerage for this town.

ST. JOHN, N. B.—F. A. Barbour, of Snow & Barbour, Engrs., 1120 Tremont Bldg., Boston, Mass., has submitted a report on the improvements to be made in the St. John water supply. They include construction of two concrete steel aqueducts, 15,000 ft. long, 39 × 48-in. drain, and 10,000 ft. of 33-in. wood stave pipe, and will cost $175,000.

SEWERAGE.

BEVERLY, MASS.—Ordinance has been passed providing for the construction of the McKay St. sewer. Cost, $10,000.

BROCKTON, MASS.—Sewer filter beds will be enlarged at cost of $10,000. Chas R. Felton is Cy. Engr.

MILLERS FALLS, MASS.—Contract for building 4,800 ft. of sewers has been awarded to Edward B. Roberts, of Swampscott.

PORT JERVIS, N. Y.—Bids are asked until Aug. 26 for the construction of a sewage pumping station here. John F. Cleary, Village Clk.

BUFFALO, N. Y.—Johnson & Mumm were lowest bidders for Folger St. sewer contract, at $2,033.

Same were lowest bidders for Whitefield St. sewer contract, at $2,556.

ROCHESTER, N. Y.—Contract for sewer in Park Ave. was awarded to Lauer & Hagaman, at $18,756.

FAR ROCKAWAY, N. Y.—The Department of Sewers has ordered the construction of 21 sewer basins at Rockaway Beach.

ALBANY, N. Y.—The Board of Contract and Supply has awarded the following contracts: Sewer in Madison Ave., from Broadway to the river, Albany Material & Construction Co., $6,999; sewer in Colonie St., from Swan St. west, M. F. Dollard, $1,337.

ORADELL, N. J.—Bids were received by Council of Delford borough for building a sewer system. Lowest bidder was the Harrison Construction Co., of Newark, at $45,735. All bids were rejected. New bids are asked until Sept. 6 for furnishing material and constructing a system of sanitary sewers and septic tank, consisting of about five miles of 8 to 20-in. pipe sewers, 90 manholes and 16 flush-tanks. Aaron Ackerman, Mayor; Henry A. Bingham, Boro. Clk.; P. E. Van Buskirk, Engr., Rutherford. (Advertised, Engineering News.)

WATERLOO, N. Y.—Committee report of cost of sewering this town has been received by President Elias Vair. J. J. R. Croes is Consult. Engr. Plan provides for two sewers, one to empty below the locks and the other to let surface water into the Seneca and Cayuga canal. For the entire village there would be required about 75,000 ft. of stoneware pipe sewers, but the present plan is for those streets that now contain sewers or in which sewers are needed to make the proper connections. All sewers are to be of vitrified stoneware pipe, laid true to line and grade with tight cemented joints. The pipe consists of 8, 10, 12, 15, 18, 20, 22 and 24-in. pipe, 90 manholes, 30 flush-tanks, and rock excavation, the cost being $48,550, to which is added $7,450 for contingencies and supervision, making a total cost of $56,000. If purification of some of the sewage was needed this would add about $5,000 more. A storm sewer for the streets would cost about $25,000 more. No definite action has been taken.

HACKENSACK, N. J.—Bids are asked by the Drainage Commission at the office of Mabie & Maidment, Union Banking Bldg., until Sept. 8 for the excavation and construction of a drain from the pond at Cherry Hill, the approximate length being 2¼ miles, and 22,000 cu. yds. of excavation. Specifications may be seen at the office of Engineering News, 220 Broadway, New York. Henry C. Adams, Pres.; Clarence Mabie, Secy. (Advertised, Engineering News.)

WESTFIELD, N. J.—Bids are asked by Town Council until Sept. 6 for constructing 8-in. vitrified terra cotta sewer. Lloyd Thompson, Town Clk.

JERSEY CITY, N. J.—Bids are asked until Aug. 29 for constructing a sewer in 16th St. Geo. T. Bouton, Clk. Bd. Street and Water Comrs.

SOUTH WILLIAMSPORT, PA.—H. H. McEwan, Clk., writes that construction of Shempps Lane sewer has been postponed for this year. Cost is estimated at about $6,000.

BALTIMORE, MD.—B. T. Fendall, Cy. Engr., writes that nothing has been done in the matter of constructing sewers, beyond the passage of an enabling act by the legislature of Maryland, permitting the city of Baltimore to submit the question of a loan to the people. It has not been voted upon yet.

Municipal Board of Public Improvements has approved the ordinance appropriating $30,000 for the extension of the Eagle St. sewer through Carroll Park.

WASHINGTON, D. C.—Bids are asked until Sept. 12 for constructing a portion of the sewage disposal system, 4½ Street High Level Intercepting Sewer in the District of Columbia. Henry B. F. Macfarland, Jay J. Morrow, Comrs. (Advertised, Engineering News.)

LAUREL, MISS.—Chas. P. Chase, Mgr. Iowa Engineering Co., Clinton, Ia., writes that time for opening bids for constructing a sanitary sewer system has been changed from Aug. 27 to Sept. 2.

SPENCER, N. C.—See under Water-Works.

TALLAHASSEE, FLA.—Bids are asked until Sept. 20 for constructing two septic tanks, two dosing tanks and five contact beds. A. H. Williams, Cy. Clk.; Wm. W. Lyon, Engr. (Advertised, Engineering News.)

ABERDEEN, MISS.—The city has issued bonds for sewerage system.

ALLIANCE, O.—City Engineer has prepared plans and estimates for several storm water sewers; also for a sanitary sewer on Rush St.; approximate cost, $20,000.

MANSFIELD, O.—Bids are asked by the Briggs Real Estate Co., P. O. Box 461, until Sept. 8 for the construction of sewers and laying water pipe in the streets and alleys of the company's new addition, consisting of about 8,514 ft. of 6 to 8-in. pipe sewer, 15 manholes, 5 lampholes, 11,220 ft. of 3 to 6-in. pipe and setting 16 gates: the company will furnish the material. (Advertise, Engineering News.)

AKRON, O.—Bids will be received at the office of the Board of Public Service until Sept. 2 for the construction of a storm water sewer along water course between Oakdale Ave. and Balch St., with all the necessary catch-basins, lampholes, manholes, ventilators, etc. Charles H. Waters, Secy.

FINDLAY, O.—Bids are asked until Sept. 3 for sewer work. J. C. Edie, Clk. Bd. Pub. Service.

FREMONT, O.—F. W. Hill, of Sidney, was lowest bidder, at $5,050, for State St. sewer contract. Bid is said to have been illegal. Lowest legal bidder was Frank Myers, City, at $5,379.

COLUMBUS, O.—Julian Griggs, Ch. Engr. Bd. Pub. Service, informs us that Samuel A. Eswein, City, was awarded contract, at $46,500, for furnishing and erecting complete the pumping plant for the main sewage pumping station, consisting of three 11,000,000-gallon and two 4,000,000 centrifugal pumps, each connected to a vertical compound condensing engine, two 10-KW. direct current generator connected to simple engine, one switch board, one hand 6-ton traveling crane, three horizontal 150-HP. water tube boilers, two surface condensers, two air pumps, two boiler and feed pumps, etc., as advertised for in Engineering News.

DOVER, O.—Bids are asked by Board Public Service until Sept. 7 for construction of 30-in. tile storm water sewer in Wooster Ave. H. F. Eppens, Clk.

FRANKFORT, IND.—Bids are asked until Aug. 30 by Arthur R. Owens, Cy. Clk., for the construction of a vitrified tile storm sewer.

DES MOINES, IA.—Bids are asked until Aug. 29 for constructing a 12-in. vitrified clay pipe sewer in West 17th St.

Bids are asked for building a sewer in Grand Ave. until Sept. 3. W. W. Wise, Chn. Bd. Pub. Wks.

DYERSVILLE, IA.—Plans for a sewer system are being prepared by G. H. Meredith, Engr., Cedar Rapids, Ia.

DAVENPORT, IA.—City Engineer Wheelock has completed plans for new sewer system to be installed throughout the south side of the city. Estimated cost, $38,000. Work probably will be begun this fall.

MOUNT VERNON, ILL.—Iowa Engineering Co., Clinton, Ia., is preparing plans and specifications for a sewer system here.

ST. PAUL, MINN.—Board of Public Works has rejected all bids for constructing a sewer in 14th St. The lowest bid was $2,000 in excess of the engineers' estimate. Board will readvertise. Lowest bid was submitted by Chris. Johnson, $5,900.

MILBANK, S. DAK.—Bids are asked until Sept. 1 for the construction of sewers in sewer District No. 1. The work will be divided into three portions, for which separate bids will be received and which will contain the following approximate amounts: 1,935 ft. of main brick or concrete sewer, from the Fourth St. outlet to the intersection of Second St. and Third Ave.; 1,615 ft. of 10 to 18-in. storm water sewer and 1,282 ft. of 8-in. sanitary sewer on Second St. and Park Ave.; 3,375 ft. of 8-in. sanitary sewer on Main, Fourth and Fifth Sts. Loweth & Wolff, Engrs., St. Paul, Minn.; Ed. P. Dore, Cy. Audr.

MITCHELL, S. DAK.—Bids are asked by J. G. Markham, Cy. Audr., until Sept. 5 for furnishing 8, 10, 12, 30 and 36-in. sewer pipe in such quantities as may be needed.

TERRE HAUTE, IND.—Board of Public Works has awarded contract for the construction of brick and pipe sewer on College St. to W. H. Harris, at $4,287; Foulkes & Forbes, at $4,584, were awarded the contract for Oak St. sewer.

JOLIET, ILL.—Robert Shannon has been awarded contract for Willow Ave. sewer, at $2,760.

CHICAGO, ILL.—Stein & Ebertsheusen have been awarded the contract for supplying and setting the granite to be used in building intercepting sewer pumping station at the foot of 39th St. Cost, $60,000.

EAST ST. LOUIS, ILL.—Council has passed annual appropriation ordinance. Total of $364,500, including an appropriation of $60,000 for the proposed big outlet sewer.

FORT SHERIDAN, ILL.—Bids are asked by William Weigel, Constr. Q. M., until Aug. 31 for making necessary changes in present sewer system.

CHICAGO, ILL.—Bids are asked by Board Local Improvements until Aug. 31 for various sewer and paving work. Andrew M. Lynch, Pres.

KANKAKEE, ILL.—Ordinances providing for the construction of lateral sewers at a cost of $8,479 have been passed.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

SPRINGFIELD, ILL.—Arthur Hay, Secy. Engr., writes that all bids were rejected for 1,835 ft. of brick sewers. Lowest bidder was Wm. Spencer, at $9,108. New bids are asked on 4,000 ft. of sewer, same specifications covering work, until Aug. 31.

KIEL, WIS.—Village will vote soon on the issue of $20,000 in bonds for the installation of water-works and sewerage systems. W. G. Kirchoffer, Consulting Engr., Madison, Wis.

LINCOLN, NEB.—Cost of proposed Fifth Ward sewer and water main extension have been estimated at $7,000.

FARGO, N. DAK.—Bids are asked by H. J. Gibson, Cy. Audr., until Sept. 8 for constructing 360 ft. 18-in. trunk sewer and 1,370 ft. 12-in. lateral sewer.

ST. LOUIS, MO.—Bids are asked until Sept. 6 for construction of sewer. Hiram Phillips, Pres. Bd. Pub. Improvements.

SHERIDAN, WYO.—Andrew Rosewater, C. E., of Omaha, Neb., is preparing plans for a sewer system for this city. Cost, about $35,000.

OKLAHOMA CITY, OKLA.—Bids are asked until Aug. 29 for building several sewers. T. A. Blaise, Cy. Clk.

SEATTLE, WASH.—Bids are asked until Sept. 3 for building Melrose Ave. North sewer and Fourth Ave. West sewer, at estimated cost of $2,960.

EUREKA, CAL.—Contracts for sewers have been awarded as follows: Section 1, Williams & Belser, $7,373; Section 2, Moore & Lentel, $6,800; Sections 3 and 4, Wm. Heafey, $2,500 and $1,750, respectively; Sections 5, 6, 7 and 8, Contra Costa Construction Co., $560, $625, $1,593 and $1,016, respectively.

SUMMERSIDE, P. E. I.—Bids are asked by H. J. Massy, Town Clk., until Nov. 1 for construction of a system of water-works and sewerage. Plans by R. C. Lea, C. E., of Montreal.

PORTAGE LA PRAIRIE, MAN.—See under Water-Works.)

PALMERSTON, ONT.—Bids are asked until Aug. 29 for building 6,210 ft. of 8 to 20-in. pipe sewer, 106 single T Y junctions, 11 manholes, 2 flush-tanks, 24 catch basins. John Galt, Engr., Toronto; H. Hyndman, Jr., Clk.

GARBAGE DISPOSAL—STREET CLEANING

BUTLER, PA.—Local press reports state that city may have to construct new garbage furnace, as present one is too small.

CHICAGO, ILL.—City Council, according to reports, is considering proposition of National Garbage Fuel Co., P. M. Harmon, Pres., Masonic Bldg., Chicago, for converting city garbage into fuel.

DULUTH, MINN.—Special Commission, Dr D. D. Murray, Health Comr., member, is stated to have recommended establishment of $20,000 municipal garbage crematory.

SACRAMENTO, CAL.—Proposals are stated to have been received by the City Trustees Sanitation Committee from the following parties for erection of garbage crematory: Lilley & Thurston, Hayward Bldg., San Francisco, Co., 25-ton Dixon destructor plant, $16,730, 40-ton plant, $18,800. James Touhey, Sacramento, offered to furnish a 25-ton Dixon and necessary land for $11,500, or a 40-ton plant for $14,750. Decarie Mfg. Co., Minneapolis, Minn., offered to install 40-ton Decarie incinerator and evaporator for $15,767, or 25-ton plant for $14,132. Dundon Iron Works, San Francisco, offered to install a 40-ton high grade Meldrum constructor for $14,628, or 25-ton plant for $13,728.

STREETS AND ROADS.

CAMBRIDGE, MASS.—As noted last week, $29,600 will be used for paving purposes. We are informed that work will be done by city and no contract awarded.

MILLBURY, MASS.—George Grogan was awarded the contract for building a section of state road, at $5,140.

LISBON, CONN.—Donahue Bros., Middleton, are reported to have been awarded the contract for 5,584 ft. of gravel road, at $4,411.

HADDAM, CONN.—Seymour-Clark-Hillis Co., of Springfield, was awarded the contract for grading 5,708 lin. ft. of road, at $5,294.

MILFORD, CONN.—Elbert Clark, City, was awarded the contract for 1,876 ft. of gravel road, at $2,476, and 2,450 ft. of macadam road, at $3,381.

DURHAM, CONN.—Hubbard & Asman, local contractors, were awarded contract for telford and macadam work, at $3,300. Frank Arragoni & Bro. were awarded contract for 2,527 ft. of telford road, at $2,577.

RIDGEFIELD, CONN.—L. L. Beckwith was awarded contract for 1,900 ft. of macadam work, at $2,945.

NEW CAANAN, CONN.—J. T. Stillman, New Caanan, was awarded the contract for 4,865 ft. of macadam, at $5,060.

NEWINGTON, CONN.—Highway Commissioner Macdonald, of New Haven, has awarded a contract for construction of 4,930 lin. ft. macadam road in this town for $5,669.

TORRINGTON, CONN.—The contract for the telford macadam road from Migeon Ave to the West Torrington bridge has been awarded by Highway Commissioner Macdonald to the Seymour-Clark-Hills Co., for $5,412.

NEW YORK, N. Y.—Bids will soon be asked by Borough President Ahearn for the repairing of about 25 streets. The city engineers have completed the surveys.

PATERSON, N. J.—The Board of Alderman has passed to second reading an ordinance for the issue of bonds to the amount of $80,000 for the permanent improvement of streets. All of the streets are to be paved with asphalt with the exception of Hamburgh Ave., where granite blocks will be laid between and to 18 ins. outside of trolley tracks, the pavement on each side to the gutter being asphalt; Broadway Hill will be paved with a combination of asphalt and macadam, giving a rough surface.

PATERSON, N. J.—Bids are asked until Sept. 2 for grading and macadamizing five streets. E. N. Kevitt, Chn. Bd. Freeholders.

JERSEY CITY, N. J.—The Street and Water Board, Chas. Van Keuren, Ch. Engr., it is reported, will make the following improvements: Repave Newark Ave., from Warren to Brunswick St., with granite blocks, $36,000; relaying paving blocks on Henderson St., from Pavonia Ave. to the city line, $7,400; same work on Grove St., from Pavonia Ave. to city line, $5,800; relaying pavement on Grand St., from Mill creek to Communipaw Ave., $10,300; new block pavement on Hudson St., from Exchange Pl. to Grand St., $3,500; new pavement on Grand St., from Henderson to Van Vorst Sts., $4,800.

PATERSON, N. J.—Bids are asked by the Director, Bd. Chosen Freeholders of Passaic County, until Sept. 2, for grading and macadamizing roads. E. N. Kevitt, Dir.; Chas. H. Newman, Chn. road committee; Geo. W. Botbyl, Clk.

ETNA, PA.—Borough will receive bids on 6,500 sq. yds. brick paving and 1,500 lin. ft. of 10-18-in. vitrified tile pipe sewering.

WAYNESBURG, PA.—Contract for permanent road construction in Greene county under the direction of the state department of public highways has been awarded to the Joseph Thomas Construction Co., of Pittsburg, at $20,214. Contract calls for about three miles of permanent road south from Waynesburg, along Smith creek.

NORRISTOWN, PA.—County Commissioners have awarded contract for 2¼ miles of macadam roads in Worcester Township to C. N. Smith & Co., at $11,361.

CUMBERLAND, MD.—Bids are asked until Sept. 1 for grading and paving. D. P. Levre, Cy, Clk.

BALTIMORE, MD.—Ordinance has been approved by Mayor Timanus appropriating $3,000,000 for new piers and widening of Pratt St. Ordinance was also approved appropriating $1,425,000 for widening other streets.

CHURCHVILLE, MD.—A. N. Johnson, State Road Engr., has estimated cost for proposed macadamized road to Havre de Grace. Cost by the Albino route is $32,407, and by the Level route $33,474.

TOWSON, MD.—See under Bridges.

WASHINGTON, D. C.—Bids are asked until Aug. 30 for paving various streets and avenues with bitulithic pavement. Henry B. F. Macfarland, Comr. (Advertised, Engineering News.)

ASHEVILLE, N. C.—North French Broad Ave. will be paved.

CHARLESTON, S. C.—Several petitions will be presented to City Council shortly in regard to paving the side streets leading off Main St. for a block. It is understood that there will be a petition for paving Washington St., and also for paving the north side of Laurel St.

SAVANNAH, GA.—Work of paving new streets will be taken up next month by Geo. M. Gadsen, Dir. Bd. Pub. Wks.

SALISBURY, N. C.—C. M. Miller, Cy. Engr., writes us that he is very anxious to secure a good brick convenient to Salisbury. Considerable public work is to be done in this city.

EASTLAKE, ALA.—$12,500 of bonds have been voted for street improvements.

BIRMINGHAM, ALA.—Crockett Paving Co. was awarded the contract for paving several streets, at $63,484. Various improvement ordinances covering grading, paving, curbing and macadamizing work were passed.

JACKSON, MISS.—Capitol Commission has awarded contract to Brantley Granite Co., of Lithonia, Ga., for concrete walks, drives, etc., about new capitol building. Work involves about $6,000.

VICKSBURG, MISS.—Bids are asked until Sept. 5 for widening and grading Hynes hill, both sides of bridge, on Road No. 10. J. D. Laughlin, Clk.

JEFFERSON CITY, TENN.—The matter of arranging for a system of graded roads, to be built from Jefferson City to Dandridge, from White Pine to Dandridge, from Chestnut Hill to Dandridge, and from the Knox County line to Dandridge probably will be taken up by county court soon.

KNOXVILLE, TENN.—Citizens of West Main Ave. are planning to pave a portion of that street. Dr. W. S. Nash, of Main Ave., may be interested.

HENDERSON, KY.—Bids are asked until Sept. 6 for granitoid or artificial stone sidewalks, etc. J. H. Powell, Mayor.

ASHLAND, KY.—Contract for proposed street paving, amounting to $75,000, has been rescinded. City will again advertise for bids. R. C. Richardson is Cy. Clk.

LOUISVILLE, KY.—Bids are asked until Aug. 29 for street work and for erecting fire hydrants.

OWENSBORO, KY.—John Trapp has been awarded the contract for macadamizing the Hartford road, at $7,490.

ASHTABULA, O.—Bids are asked by the Board of Public Service until Sept. 10 for the improvement of Prospect St. by grading, draining, curbing and paving with asphalt block. Approximate quantities, 901 cu. yds. excavation, 3,117 sq. yds. asphalt block pavement with gravel foundations, 1,866 lin. ft. curbing, 38 corner blocks. A. J. Richardson Clk.

CLEVELAND, O.—Bids are asked by County Commissioner until Sept. 14 for the grading, draining and graveling of Richmond Road. Wm. H. Evars, C. E., is County Surveyor.

TOLEDO, O.—Bids will be received by the Board of Public Service until Aug. 29 for paving with vitrified paving block, asphalt blocks, medina block stone, creosoted wood, bitulithic pavement, or other bituminous macadam.

LORAIN, O.—Bids are asked by Board of Public Service until Sept. 16 for paving several streets. J. J. Mahoney, Clk.

CINCINNATI, O.—Bids are asked by Clerk, Board of Education, City Hall, until Sept. 3, for grading the school lot fronting on White St., in Lick Run, in accordance with the plans and specifications on file in the office of Superintendent of Buildings, 910 Main St. Jacob E. Cormany, Chn. Com. on Bldgs. and Repairs.

BLUFFTON, O.—A. J. Bogart, of Columbus Grove, has secured the contract for paving Cherry St. Cost, $12,000.

AKRON, O.—J. M. Davidson, City, has been awarded the contract for paving Allen St. at about $13,000.

KENT, O.—Bids are asked by Village Council until Sept. 12 for paving of Main St. and other improvements. Fred Bechtle, Clk.

COLUMBUS, O.—Bids are asked until Aug. 30 for grading, paving and macadamizing several streets. Charles H. Frank, Secy. Bd. Pub. Service.

DAYTON, O.—Kirshner Construction Co. was lowest bidder, at $34,835, for reconstruction of several paved streets.

OTTAWA, O.—Bids are asked until Sept. 3, for construction of the Blosser and Simon stone road. Approximate quantities are as follows: 12,170 cu. yds. crushed stone; 18,051 cu. yds. excavation; 54,307 lin. ft. 4-in. drain tile; 5,005 lin. ft. 6-in. drain tile; 1,000 lin. ft. 7-in. drain tile; and 3,451 lin. ft. 8-in. drain tile.

PLEASANTRIDGE, O.—Village Engineer Hosbrook estimates cost of proposed improvement of Montgomery pike at about $6,000.

MUNCIE, IND.—Bids are asked until Sept. 12 for curbing and guttering work. R. G. Hickok, Cy. Clk.

ANDERSON, IND.—The Council has authorized an issue of bonds for the improvement of Sherman St.

INDIANAPOLIS, IND.—Bids are asked until Aug. 29 for improving various streets. M. A. Downing, Chn. Bd. Pub. Wks.

RICHMOND, IND.—Contract to pave Ft. Wayne Ave. was awarded to J. F. Cronin, at $9,879.

CRAWFORDSVILLE, IND.—Bids are asked until Sept. 5 for grading and paving with brick of a number of streets. Henry B. Hulet, Cy. Clk.

WABASH, IND.—Bids are asked by City Clerk until Sept. 12 for the improvement of Stitt St. by grading and macadamizing the roadway, stone curbing and constructing cement sidewalks. Fremont McLees, Cy. Clk.

DOWAGIAC, MICH.—J. S. Haines, Cy. Surv., writes that contract for paving Trent, Commercial and Beason Sts. with metropolitan brick has been let to F. M. Kemp & Sons, Middletown, O., for $24,128. Bids opened Aug. 12.

GRAND RAPIDS, MICH.—City Engineer Anderson has been directed to prepare plans for the regraveling of Grandville Ave.

GRAND RAPIDS, MICH.—Richard Pickett was lowest bidder for West St. paving contract. Bids were in excess of engineer's estimate.

HOUGHTON, MICH.—Prominent citizens are reported to have under consideration the paving of the principal streets of the village of Red Jacket. Estimated cost is $100,000.

CHICAGO, ILL.—State St. property owners have awarded contract to Conway Construction Co. for the improvement with asphalt pavement from Madison St. south to Jackson Boulevard. Cost, about $35,000.

BRACEVILLE, ILL.—An ordinance has been passed by Board of Trustees for the improvement of Main St. by the construction of cement sidewalks. Walter Bath, Village Clk.

HINSDALE, ILL.—Bids are asked until Aug. 29 for macadamizing etc., estimated cost, $4,105, $6,324.50 and $34,677.50, respectively, by the Board of Local Improvements. Wm. Duncan, Village Clk.; Vertus B. Roberts, Engr., Room 709, Reaper Blk., Chicago, Ill. (Advertised, Engineering News.)

BLOOMINGTON, ILL.—A petition is being circulated and will soon be presented to the Board Local Improvements for an extension of the pavement on West Chestnut St. to Western Ave., to connect with the new West Side Park.

PALMYRA, ILL.—Bids are asked until Aug. 30 for road work. H. M. Gilbert, Town Clk.

KEOKUK, IA.—Bids are asked by Clerk of City Council until Aug. 29 for improving alley in Block 129 by grading and macadamizing with stone. The approximate quantities are as follows: 350 cu. yds. grading and 668 sq. yds. macadam pavement. J. Ross Robertson, Cy. Engr.

SHENANDOAH, IA.—Council has taken steps toward paving Main St. A number of sewers have also been ordered.

DES MOINES, IA.—Bids are asked by Board Public Works until Aug. 29 for curbing with Portland cement University Ave. and West 12th St., about 3,065 lin. ft.

DES MOINES, IA.—Bids are asked until Sept. 6 for curbing several streets. W. W. Wise, Bd. Pub. Wks.

OMAHA, NEB.—$16,000 of paving bonds have been sold.

OMAHA, NEB.—Bids are asked by the Board of Public Works, until Sept. 2 for an asphalt paving and repair plant for the use of and to be owned by the city. Wm. C. Brown, Secy.; Andrew Rosewater, Chn. (Advertised, Engineering News.)

ST. PAUL, MINN.—City Engineer Rundlett has prepared an estimate on the cost of grading Winona St., placing the total cost at $3,200.

ST. PAUL, MINN.—College Ave. paving has been authorized. Estimated cost, $22,710.

Fielding & Shepley have been awarded contract for paving East Fourth St. with sandstone, at $28,950.

CHILLICOTHE, MO.—Bids are asked until Sept. 8 for 17,000 sq. yds. of paving. E. C. Orr, Cy. Clk.

ST. LOUIS, MO.—Bids are asked until Sept. 6 for various paving work. Hiram Phillips, Pres. Bd. Pub. Wks.

PINE BLUFF, ARK.—I. P. Shelby has been awarded the contract for paving Dist. 17, at $57,000.

SOUTH McALESTER, IND. T.—Bids are asked until Sept. 1 for paving of the business streets of this place with vitrified brick.

OKLAHOMA CITY, OKLA.—We are informed that bids are asked until Aug. 29 for paving various streets. There is in all about 20 blocks of paving, aggregating about 40,000 sq. yds., and an equal amount is under consideration that probably will be let in the near future. Approximate estimate for this work, including paving, curbing, grading and providing for storm drainage, is about $100,000. T. A. Blaise, Cy. Clk.

SEATTLE, WASH.—Bids are asked until Sept. 3 for paving Pine St. and Second Ave., with asphalt. Estimated value, $21,000.

SEATTLE, WASH.—Bids were received for following work: 20th Ave., South, grading, William Stanley & Co., $3,115; Linden Ave. and other streets, wood walks, W. F. Manney & Co., at $5,884 were the lowest bidders; Roy and other streets; water main, P. J. McHugh, at $18,223, was lowest bidder.

ASTORIA, ORE.—S. S. Dill has been awarded contract for Grand Ave. improvement work, at $8,676.

OAKLAND, CAL.—Bids are asked by John P. Cook, County Clk., until Aug. 29 for grading, draining, macadamizing, constructing concrete bridges, and otherwise improving County Road No. 3358, known as Foothill road.

BERKELEY, CAL.—Resolutions were adopted by Board of Trustees ordering that Todd and Fifth Sts. be macadamized and guttered with concrete. C. S. Merrill, Town Clk.

SACRAMENTO, CAL.—Landowners have discussed plans for the construction of a boulevard levee 40 ft. wide from this city down the river to Freeport, 11 miles. The present levee will be utilized, the base being widened and the crest raised. Estimated cost, about $85,000.

REDWOOD CITY, CAL.—The Trustees are considering the proposition of bonding the town for $100,000 for following improvements: Construction, renewal and extension of city's water mains, grading and paving with asphalt A and Main Sts. from railroad crossing on A to Mound, and grading and macadamizing about 60 streets and portions of streets.

SAN FRANCISCO, CAL.—Specifications of City Engineer Woodward were adopted by Board Public Works, and bids will be invited for paving with asphalt on a concrete base the city's half of H St., adjoining the Park and between 7th and 20th Aves., the laying of necessary sewers and gutter-ways being also provided for. Est. cost, $25,000.

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An ordinance was passed by Supervisors ordering that Belvedere, Helen and California Sts. be paved with bituminous rock pavement. Chas. W. Fay, Clk.

SALT LAKE CITY, UTAH.—Bids are to be advertised for paving South Temple St.

MANUFACTURING PLANTS.

TAUNTON, MASS.—It is reported that a large addition will be built to the Canoe River mill building by the owners of the Watuppa mill. The old machinery will be taken out at once and new equipment installed.

BROCKTON, MASS.—Eugene B. Estes, Secy. Bd. of Trade, has received a letter from a silk manufacturer in New York asking if there are accommodations in this city where he could establish a silk mill.

LITTLE FALLS, N. Y.—Fire has destroyed the McCauley shoddy mills and the plant of the Consumers' Electric Co., causing a loss of $25,000.

PROVIDENCE, R. I.—Geo. B. Frost, of Barrington, and C. H. Shephard have incorporated a company with $100,000 cap. stock to manufacture lace. The mill will probably be established in Bristol, R. I.

ALBANY, N. Y.—The Albany Forge Co., it is reported, will be in the market for machine shop and forge equipment for its new plant. The company has bought three acres of ground a short distance from the city limits and is arranging to erect a forge plant and furnace building, and also a machine shop. The company is capitalized at $80,000.

NEW YORK, N. Y.—Morse Iron Works, Erie, Pa., has purchased 17-acre site on which it will erect an extensive plant for the manufacture of malleable and cast-iron fittings, and also plumbers' brass goods and supplies. Plant will be operated by electricity. Thos. G. Morse, formerly Superintendent of Jarecki Mfg. Co., Erie, is Pres. of new company.

SYRACUSE, N. Y.—Great Northern Brewing Co., in which Herman Bartels, Jr., is interested, will soon commence erection of new brewery here to cost between $300,000 and $400,000. Equipment has been ordered.

LANESBORO, PA.—The Barnes Manufacturing Co., Lanesboro, Pa., will, it is stated, shortly require a small amount of woodworking machinery to replace that destroyed in a recent fire. The company manufactures circular saw mills and special machinery.

POTTSVILLE, PA.—We are informed that contract for shirt factory for M. Phillips & Son at this place has been let to John W. Ferguson, Paterson, N. J. Building is to be four stories, 54 × 123 ft., of mill construction, with brick walls. Est. cost is $30,000 and Ballinger & Perrott, 12th and Chestnut Sts., Philadelphia, are Archs.

ALLEGHENY CITY, PA.—The Nicola Building Co., of Pittsburg, was awarded the contract for erection of new plant of the Pittsburg Stove & Range Co. on Preble Ave., City. Cost, $60,000.

PITTSBURG, PA.—It is reported that the Best Mfg. Co., City, will erect a large brass plant in West Pittsburg, 600 × 390 ft.

ALTOONA, PA.—Four car works buildings at Huntingdon have been leased by company, W. H. Kilgour, Mgr., Scranton, Pa., which proposes to establish silk mill there. It is stated that the equipment will cost about $50,000.

READING, PA.—Plans have been completed for a new factory to be erected by the Gem Knitting Mills Co., of this city, at Front and Green, where site has been purchased by the firm. It will be of brick, three stories in height, with a basement. Estimates will be prepared by contractors at once.

NEW RINGGOLD, PA.—The Ringgold Cement Co., care Chas. A. Roth, will soon have plans started for a cement plant at this place. Brick and concrete buildings, boilers, engines, dynamos, conveying machinery, crushers and special machinery, etc., will be required.

READING, PA.—The Consumers' Bakery Co., 449 Penn St., has invited bids for a bakery. Brick, slow-burning, 3 stories, 50 × 115 ft., steam heating, elevators and electric lighting, boilers, engine, dynamo and special equipment will be required.

SHARON, PA.—American Foundries Co. will, it is stated, let contracts soon for erecting 50-ft. square addition to its casting house. It is also stated that other additions will be made soon.

SAYRE, PA.—It is stated that the shops of the Lehigh Valley R. R., at Sayre, on the construction of which $1,000,000 has been expended, are to be enlarged and improved until the total cost will be between $5,000,000 and $6,000,000. The work now in progress will be continued, and it is estimated that all the machinery required will be installed by next spring. Walter B. Berg, New York, N. Y., is Ch. Engr.

HAGERSTOWN, MD.—The Blue Ridge Knitting Co. will, it is stated, install 65 knitting machines.

GREENSBORO, N. C.—Etowah Cotton Mills Co., W. I. Young, Pres., is stated to have let contract for erection of buildings to J. F. Gallivan Building & Construction Co., Greenwich, S. C. The work comprises a main building 302 × 120 ft., a dye house and finishing house, each 2-story and 40 × 136 ft., engine and boiler room and 150 ft. high stack. Cost of construction will be $100,000, and it is hoped to have buildings ready for equipment by February, 1905. The contract for construction of the cottages, warehouses, reservoirs, etc., which will cost about $100,000, will be awarded later, and probably to home contractors.

CLEARWATER, S. C.—It is reported that the Clearwater Bleaching & Mfg. Co., offices in Augusta, Ga., intend doubling its capacity for bleaching and finishing bag goods.

BREMEN, GA.—J. T. Copeland & Son will rebuild their grist mill, burned recently.

TAMPA, FLA.—C. E. Webb and Lee Dekle, according to reports, are to erect a $25,000 sand-lime brick plant at this place.

MOBILE, ALA.—Monarch Candy Mfg. Co., recently organized with $15,000, will locate plant here for manufacture of candy. Philip Muscatt is Pres., and C. M. Kearns Secy.

HUNTSVILLE, ALA.—A rope and twine factory will be erected here. James R. Boyd, Pres. Chamber of Commerce, can give information.

GREENWOOD, MISS.—L. A. Beatly will establish a woodworking plant here about Jan. 1, at a cost of $20,000.

DICKSON, TENN.—Tennessee Land & Iron Co., recently organized here with $50,000 capital, proposes to erect an iron furnace of 100 tons a day capacity in the vicinity of Dickson. The company has secured 3,000 acres of splendid ore lands, and expects to build a railroad six miles long and put in all modern machinery necessary to operate the furnace. S. M. Grandey is Secy., J. O. Griffith is Mgr.

UNION CITY, TENN.—The Morgan & Hardy Grain Co. will erect a flouring mill with a capacity of 300 barrels.

SHARON, TENN.—A new cotton gin company has been organized here by Hollis & Parish, Brock & Roberts, I. F. Terry, E. E. Baxter and others. An entire new plant will be erected.

TULLAHOMA, TENN.—The Chester Cooperage Co. has purchased about 2,000 acres of timber land from the Coffee County Realty Co. and will establish a plant for the manufacture of all kinds of lumber and material used in making barrels, etc. The work on the buildings and grounds, it is stated, will commence at once.

LOUISVILLE, KY.—J. Walter Bell, Louisville, is stated to be promoting organization of company with $1,000,000 capital, to establish a string of warehouses in several cities of the south for the storage of cotton.

LOUISVILLE, KY.—The Joseph Schlitz Brewing Co. has taken out a building permit for the erection of a cold storage plant at 18th and Arbegust Sts. Cost, $10,000.

LORAIN, O.—Lorain Machine & Forge Co., Lorain, is preparing plans for the enlargement of its works. It is intended to add a foundry to the machine and forge shops.

KALAMAZOO, MICH.—E. A. Cummings & Co., Chicago, Ill., have purchased 105 acres of land at the edge of the city, and intend to erect a large arc light factory, which will employ upwards of 200 men. Plant is to be in operation by first of year.

LANSING, MICH.—The R. E. Olds Co. has perfected its organization, with capital of $1,000,000, and will erect a factory in this city for the manufacture of automobiles. Ransom E. Olds is Pres., and Edward F. Peer, Secy.

CHICAGO, ILL.—We are informed that contract has been let for building to be erected at cost of $25,000 by Chapin & Gore. Contracts for machinery, which will cost about $7,000, will be let about Aug. 31. Equipment will consist of Corliss engine, 60-in. × 16-in. boiler pump, feed water heater, and blast system of heating. Richard E. Schmidt, 172 Washington St., Chicago, Ill., is Arch.

CHICAGO, ILL.—M. Schrayer & Sons will erect a factory at 18th and Brown Sts. Four stories, brick, 78 × 100 ft., to cost $40,000.

WAVERLY, IA.—Plans are reported under way for a brewery here, 4-story, brick, 90 × 110 ft., to cost $100,000.

MINNEAPOLIS, MINN.—Betrand & Chamberlin, Archs., 517 First Ave., S. Minneapolis, have prepared plans for $50,000 warehouse to be built for the Northwestern Knitting Co. The construction will be of reinforced concrete throughout.

JOPLIN, MO.—The plant of the Ozark Zinc Oxide Co. on Villa Heights is to be greatly increased in capacity; 32 furnaces will be added to handle the output of the Graphic mine near Magdalen, N. Mex., which was purchased by the Joplin company for $250,000.

EL PASO, TEX.—H. B. Grubbs, of St. Louis, contemplates establishing an $18,000 cracker factory here. The Secy., Chamber of Commerce, can inform.

BLUFFDALE, TEX.—The Bluffdale Mill & Gin Co. will erect a cotton gin here. W. T. Howard is one of the incorporators.

BELTON, TEX.—The Belton Cotton Mills Co. will double the capacity of its mill.

SAN ANTONIO, TEX.—O. Pressprick & Co., New York, are stated to be considering construction of canning factory in this city.

LAWTON, OKLA.—J. D. Cunningham will erect a 300-bbl. flouring mill here.

PECKHAM, OKLA.—The Peckham Grain Co. will erect a grain elevator.

EL RENO, OKLA.—The Frisco Grain Co. will erect a grain elevator here.

QUINLAN, OKLA.—The Farmers' Federation of Woodward County will erect a grain elevator here.

EL RENO, OKLA.—W. C. Boatman, of Chicago, Ill., contemplates erecting a building here to cost $10,000 to be used for packing-house purposes. Secretary of the El Reno Commercial Club may be able to give information.

ENID, OKLA.—Erection of plant for manufacturing building stone will soon be commenced here by A. C. Barnhardt, of Scranton, Ia.

LAWTON, OKLA.—The Lawton Ice & Fuel Co. will establish a broom factory, which will be operated in connection with its other plants.

MOUNTAIN VIEW, OKLA.—M. T. Byrd, Nashville, Tenn., will erect a large warehouse here.

FERGUSON, OKLA.—The Southwestern Cement Manufacturing Co., which has a capital stock of $200,000, will erect a large cement plant here.

MOUNTAIN PARK, OKLA.—The Farmers' & Merchants' Gin Co. will erect a cotton gin here.

SHAWNEE, OKLA.—Anheuser-Busch Brewing Co. will erect an ice factory here.

FLETCHER, OKLA.—Fletcher Gin & Milling Co. will erect a cotton gin here.

HINTON OKLA.—A cotton gin will be established here by J. J. Ayres.

LAWTON, OKLA.—J. A. Cash will erect a modern ginnery at this place.

SHAWNEE, OKLA.—The Independent Cotton Gin Co. will erect a ginnery at this place.

WATONGA, OKLA.—J. W. Team will build a cotton gin here.

CLEO, OKLA.—H. W. Hutchinson will establish a cotton gin here.

CARNEGIE, OKLA.—A cotton gin will be erected here by the Chickasha Cotton Oil Co.

LAHOMA, OKLA.—The Lahoma Creamery Co. will erect a plant here. A. Dillup, W. J. Grof and others are stockholders.

SOUTH McALESTER, IND. T.—The Elastic Pulp Manufacturing Co. will erect a plant here to cost $15,000.

MUSKOGEE, IND. T.—The Muskogee Canning Factory Co. will erect a canning factory here.

OLYMPIA, WASH.—Local reports state that the creosoting plant of Capt. Dundon, at Lowell, which was destroyed by fire, will be rebuilt on a larger scale, a $100,000 plant being projected.

TACOMA, WASH.—The Barber Asphalt & Paving Co. has leased a site for their proposed asphalt plant. Cost, $30,000. As soon as the necessary machinery arrives work will begin on the plant. S. T. Young, of Seattle, is managing agent.

SALEM, ORE.—Eugene Bosse and associates will establish a linen mill here and have it in operation soon after the first of the year.

ANTIOCH, CAL.—The Bowers Rubber Co., of San Francisco, has purchased 12 acres on the grant east of the redwood mills and will erect a building where all kinds of rubber goods will be manufactured.

MODESTO, CAL.—Ora McHenry is considering plans for a 3-story brick packing house to be located at the Bald Eagle ranch. Est. cost, $100,000.

ST. JOHNS, N. F.—Sir Alfred Harmsworth and a number of other newspaper proprietors of London have closed negotiations for 1,500 sq. miles of timber areas in the interior of Newfoundland. They purpose to erect the largest pulp mill in the world on this property.

MISCELLANEOUS CONTRACTS.

DAM.—Beloit, Wis.—Beloit Water Power Co. will, it is stated, erect a new cement dam at a cost of $10,000.

LEVEES AND DRAINAGE.—Sacramento, Cal.—$165,000 bond issue for levee and drainage purposes is to be voted on Sept. 3.

DOCK.—Elizabeth, N. J.—Council has set aside $500 to secure option on site for establishment of public dock and recreation pier.

LEVEE.—Chico, Cal.—Contract for building two-mile levee for Phelan estate has been let to Darby Laydon, San Francisco, Cal.

DOCK.—Cleveland, O.—Standard Oil Co. has applied to city for leave to construct docks on upper Cuyahoga River, north of Jefferson St.

STREET GRADER.—Chico, Cal.—Bids are asked by C. E. Steinegul, Cy. Clk., until Sept. 14 for furnishing city with a road or street grader.

PIERS.—Baltimore, Md.—Mayor Timanus has approved ordinance appropriating $3,000,000 for constructing new piers and widening of Pratt St.

DAM.—Rockford, Ill.—Rockford Water Power Co., according to reports, is soon to commence replacing its wooden dam with a concrete structure.

TELEPHONE LINE.—Victoria, Tex.—Right of way has been granted by the Commissioners Court for a telephone line between Victoria and Mission Valley.

DREDGING.—Portland, Ind.—Petition for dredging of Salamonia River has been filed in the Circuit Court. Est. cost of proposed improvement is $100,000.

DREDGING.—Mobile, Ala.—Bids are asked until Sept. 24 for dredging in Mobile Harbor. Maj. W. E. Craighill, U. S. Engrs. (Advertised, Engineering News.)

CAR FERRY SLIP.—San Francisco, Cal.—Harbor Commissioners have let contract for construction of car ferry slip at China Basin to Santa Fe Ry. Co., for $30,000.

OIL RESERVOIR.—Bakersfield, Cal.—West Shore Oil Co., President Knowles, Berkeley, Cal., according to reports, will erect 500,000-bbl. reservoir in the Kern River field.

TELEPHONE LINE.—Eureka, Cal.—Supervisors will open bids Sept. 13 for franchise as applied for by G. A. Cummings for telephone line in Mattole and Petrolia Sections.

GAS WELLS.—Lawrence, Kan.—Douglas County Gas & Oil Co. has let contract for sinking five prospect wells near here to C. L. Hanson Drilling Co., Independence, Kan.

WHARF.—New Orleans, La.—Contract for constructing Toulouse St. wharf, bids for which were opened Aug. 16, has been let to J. H. Gardner Construction Co. for $22,943

MODEL VILLAGE.—York, Pa.—P. C. Weist, York, is stated to have bought 65 acres of land near Dover on which he will erect a model village, to be inhabited by ten families.

DITCH.—Blair, Neb.—Contract for constructing Highland Ditch Improvement, composed of about eleven miles of drainage ditch, has been let to Canal Construction Co., Chicago, Ill.

HARBOR IMPROVEMENT.—Galveston, Tex.—Bids are asked until Sept. 22 for improving the harbor at Brazos, Santiago. Capt. Edgar Jadwin, U. S. Engrs. (Advertised, Engineering News.)

SUBWAY.—Johnstown, Pa.—Plans are being drawn for construction by Pennsylvania R. R. Co. of underground passage way at this place. L. R. Zollinger, Altoona, Pa., is Asst. Engr., P. R. R.

EARTHWORK.—New Orleans, La.—Bids are asked by Capt. J. F. McIndoe, U. S. Engrs., until Sept. 10 for constructing about 431,700 cu. yds. earthwork in the Pontchartrain Levee District.

FISHWAYS.—Harrisburg, Pa.—Reiter, Curtis & Hill, Philadelphia, Pa., were awarded contract Aug. 11 for constructing three fishways through dam across Susquehanna River at Clark's Ferry.

BREAKWATER.—New Haven, Conn.—A. William Sperry, C. E., has secured permit in behalf of Pine Orchard Yacht Club for erection of breakwater at Crescent Beach to cost about $10,000.

PLACING STONE.—Portland, Me.—E. S. Belden & Sons, Hartford, Conn., at $21,400, were low bidders Aug. 18 for placing 20,000 tons of stone on breakwater at Rockland Harbor, Me., for U. S. Government.

TELEPHONE SERVICE.—Toronto, Ont.—Bids are asked by the Board of Control until Oct. 1 for installing and operating a telephone service. Thos. Urquhart, Mayor, Chn. (Advertised, Engineering News.)

CONCRETE COAL POCKET.—East Orange, N. J.—Contract for constructing concrete coal pocket at White Oak Ridge, bids for which were opened Aug. 15, has been let to Commonwealth Roofing Co., which is now building the reservoir.

HIRE OF DREDGING PLANT.—Detroit, Mich.—Bids are asked by Lt.-Col. C. E. L. B. Davis, U. S. Engrs., until Sept. 13 for hire of dredging plant for use in Detroit River.

RIVER IMPROVEMENT.—La Crosse, Wis.—Fetter & Crosby, La Crosse, are stated to have secured contracts from U. S. Government, for four pieces of river improvement work between St. Paul and St. Louis, for a total bid of $160,807.

DRAINAGE WORK.—West Palmbeach, Fla.—East Coast Ry. Co., according to reports, proposes to partially drain the fresh water lakes east of the city, thus reclaiming many thousand acres of land. J. B. McGinley is on Board of Trade Committee.

TELEPHONE LINE.—Quincy, Cal.—It is stated that contract for the construction of telephone line in Indian Valley will soon be let. It is expected that line will later be connected with Greenville and Crescent Mills. John Stark may be interested.

CRIB REMOVAL.—Cleveland, O.—Plans, specifications and bidding sheets are on file at office of Engineering News, 220 Broadway, New York, for removal of water cribs for this city. Bids are asked until Sept. 13, as advertised in Engineering News.

PIER.—Jersey City, N. J.—Plans have been prepared for erection of 1-story, 100 ft. wide, 400 ft. long pier, to be erected at a cost of $200,000 for the Delaware, Lackawanna & Western R. R. It will be known as freight pier No. 5. Lincoln Bush, Hoboken, N. J., is Ch. Engr.

LOCK GATES AND ANCHORAGES.—Pittsburg, Pa.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for building and erecting in place four pairs of lock gates and anchorages. Bids are asked until Sept. 8, as advertised in Engineering News.

FILLING.—Sioux City, Ia.—Sioux City Stock Yards Co. has let contract to Fox & Smith, Kansas City, Mo., for filling in old channel of Floyd River. Work will require moving of at least 350,000 cu. yds. of dirt and a channel 1,800 ft. long and from 200 ft. to 300 ft. wide will be filled.

WHARVES AND SHEDS.—San Francisco, Cal.—The Pacific Mail S. S. Co. has asked the Harbor Commissioners for construction of two wharves and single-storied sheds to cost about $210,000, which they will lease. L. D. Norton, Ch. Engr., Harbor Comrs., is working on plans for the work.

WIRELESS TELEGRAPH SYSTEM.—Washington, D. C.—Prof. Willis Moore, Ch. Weather Bureau, is to go to Black Hills Reservation to make an examination and report on matter of establishment of a wireless telegraph system of fire alarms in the forest reserves under the control of the government.

NEW RIVER CHANNEL.—Sacramento, Cal.—Surveys have been commenced by the State Engineer under direction of Public Works Commission for the proposed route for the new channel to turn Yuba River towards Reeds Dry Creek, and following that water course to the Bear and American River basin.

CANAL WORK.—Albany, N. Y.—It is hoped to begin actual excavation work on the barge canal on or before Nov. 1. Part of the work will proceed during the winter. Specifications and contract forms are now in the Attorney-General's hands and as soon as they are approved the contracts will be advertised.

LOWERING DAM CRESTS.—Chicago, Ill.—The Trustees of the Sanitary District of Chicago are to immediately undertake the lowering of the crests of the La Grange and Kampville dams, the work having been authorized by the United States Government. Isham Randolph, Security Bldg., Chicago, is Ch. Engr.

BOILERS.—New York, N. Y.—Bids are asked by Commissioner Water Supply, Gas and Electricity, 13 Park Row, until Aug. 31 for furnishing and delivering two 200-HP. internally fired marine type boilers at the Ridgewood pumping station, Atlantic and Norwood Aves., Borough of Brooklyn. John T. Oakley, Comr.

CONCRETE-STEEL DAM.—Boston, Mass.—The Metropolitan Park Commission of Boston has ordered a new dam to be built across the Charles River at Newton Lower Falls. The dam is to be of the gravity type in concrete-steel, the engineers and contractors being the Ambursen Hydraulic Construction Co., of Boston.

FIRE HOSE.—Cleveland, O.—Bids are asked by Wm. H. Ney, Secy. Fire Department, Room 113, City Hall, until 12 o'clock, Aug. 26, for furnishing 5,000 ft. 2½-in. internal measurement, cotton rubber-lined fire hose, coupled, and 500 ft. 3½-in. cotton rubber-lined fire hose, coupled Couplings are to be Cleveland Fire Department standard, with Higbee thread.

DOCK EXTENSION.—West Duluth, Minn.—Contracts for extending Boston coal dock at 37th Ave. West were let recently, Barnett & Record, Duluth, Minn., securing contract involving about $100,000 for about 1,850 ft. cribbing, new dock floor, etc., and Lake Superior Contracting & Dredging Co., Duluth, Minn., securing contract for 50,000 to 60,000 cu. yds. earth removal from the bay.

TELEPHONE LINE.—Bellingham, Wash.—Burton Parker, Special Agent of the U. S. Treasury Department, Washington, D. C., has been investigating route of proposed cable and telephone connection between Bellingham, San Juan Islands and Victoria. The promoters want an appropriation of $3,000 a year for two years, and if given by the government the line will be built at a cost of $80,000 to $90,000.

SHORE PROTECTION.—Richmond, Va.—Following bids were received by Col. A. M. Miller, U. S. Engrs., Washington, D. C., Aug. 15 for constructing shore protection for Jamestown Island: Richard Parrott, Newburgh, N. Y., $13,004; Brady Construction Co., Fairmont, W. Va., $27,246; Thos. H. Lyons, Brookland, D. C., $22,004; Gleaves & Co., Lynchburg, Va., $26,726; Alsop & Peirce, Newport News, Va., $15,500.

DRY-DOCK.—New Orleans, La.—Plans and specifications are stated to have been already prepared for new dry-dock which New Orleans capitalists propose to build in Algiers. It will be 332 ft. long and 95 ft. wide, capable of handling ships of 5,500 tons, and total cost is set at about $200,000. A modern shipbuilding plant will also be erected. George Hero, of Lehman, Stern & Co., New Orleans, is among those interested.

CASTINGS.—New York, N. Y.—The remaining contract for Pennsylvania tunnel castings, amounting to 54,000 tons, has been awarded. It is said that M. A. Hanna & Co. will furnish half the amount of pig iron required and the remainder of the iron will be shipped from the Rogers, Brown & Co. furnaces. The castings contracts, it is reported, will be divided between the Buffalo Foundry Co. and J. B. & J. M. Cornell, of New York.

RETAINING WALLS.—Grand Rapids, Mich.—Grand Trunk Ry. Co. is stated to have let contract involving $50,000 to J. P. Rusche, Grand Rapids, Mich., for constructing southern section of retaining wall for its extension to the downtown district. Contract for the second section was let to Deane Construction Co., Chicago, Ill., while contract for third section is yet to be let. T. F. Hanley is Engr., Grand Trunk, 6th and Canal Sts., Grand Rapids, in charge of work.

OIL COMPANIES.—Arizona.—I. & I. Oil & Gas Co. has been incorporated, with principal place of business at Galesburg, Ill., with capital of $1,500,000. Miron Rhodes, G. H. Bridge and F. L. Coad are incorporators.—Frederick E. Allen, Pres.; C. A. Bradley, Vice-Pres.; E. G. Drake, Secy.; P. E. Morrison, Treas., have incorporated the Sioux Oil & Gas Co., with principal place of business in Phoenix, Ariz. Capitalization, $650,000.—R. W. Hosley, Frank Labadie, E. B. Skinner and others have in-

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

corporated the Hosley Oil Co., with principal place of business in Phoenix, Ariz.; capitalization, $50,000.—William Grimes, C. A. Ramsey, E. A. Cross and others have incorporated the Equitable Oil & Gas Co. Principal place of business is Phoenix, Ariz; capitalization, $1,000,000.—Simon Kline, Wm. Davis, Sam Nicholl and others have incorporated the Mendel Oil & Gas Co. Capitalization, $25,000, with principal place of business at Phoenix, Ariz., and No. 1419 Market St., Wheeling, W. Va.—Amsterdam Oil & Gas Co. has been incorporated with $500,000 capital, and headquarters at Phoenix, Ariz. Wendell Huston and Thos. P. Farrell are interested.

EXCAVATING, REPAIRING DAM, ETC.—Albany, N. Y.—Bids are asked by Chas. S. Boyd, Supt. Pub. Wks., until Aug. 31 for protecting and repairing and erecting a sloping apron and completing the graveling of the State dam on the St. Regis River near Brasher Falls; also for excavating and deepening the harbor and channel and the entrance thereto at the foot of Canandaigua Lake, Ontario County and repairing pier and breakwater and for deepening the approach to the dock at Woodville at the head of said lake.

OIL PIPE LINE.—Topeka, Kan.—It is announced that an 8-in. pipe line from the Kansas oil fields to Whiting, Ind., will be constructed by the Standard Oil Co. It will be 800 miles long and cost $16,000,000. Nearly 300 miles of the line is already constructed from the Indian Territory through the Kansas oil fields to the Kansas City refinerdy, now in course of building. The line from Kansas City to Whiting, or the Eastern division, will be about 500 miles long, and work on it will be commenced as soon as the usual preparatory details can be disposed of.

LOCKS AND DAMS.—Vicksburg, Miss.—Following bids were received by Capt. J. F. McIndoe, U. S. Engrs., for constructing Locks and Dams Nos. 4 and 6, Ouachita River: Chicago Engineering & Contracting Co., Great Northern Bldg., Chicago, Ill., No. 4, $226,874; No. 6, $201,264. Dravo Contracting Co., Lewis Block, Pittsburg, Pa., No. 4, $253,669; No. 6, $256,881. William W. Beerce, Ltd., Hennen Bldg., New Orleans, La., made partial bid offering to furnish structural steel, iron, chains, etc. Itemized bids for above work are given under Contract Prices.

MINING NOTES.

SMELTER.—Redding, Cal.—Redding Gold & Copper Co., according to reports, intends to put in a smelter below the Igo bridge.

MINING MILL.—Auburn, Cal.—Local reports state that the company having a bond on the Big Pine or Bouk mine below Auburn will probably erect a mill. Geo. Foster is in charge.

MINING IMPROVEMENTS.—Safford, Ariz.—The Federal Mining Co. will, it is stated, make some improvements at the mine in September. F. H. Wilson, Pres. of the company, expects to be in Safford about that time.

DRAINAGE TUNNEL.—Bangor, Cal.—A new drainage tunnel is contemplated at the Blue Gravel Mining Co.'s mining claims near Bangor, Cal. It is to carry off the water from the underground workings, and is to be three miles long.

COPPER TREATMENT PLANT.—Los Angeles, Cal.—Local reports state that it is understood that the Bagdad-Chase Mining Co. will not increase the capacity of its stamp mills, but may establish a plant to treat the copper in its ores.

MEXICO.

STREET AND ELECTRIC RAILWAYS.

CHIHUAHUA.—Local reports state that S. L. Pearce left this place Aug. 7 to complete arrangements for installing electric street car system here. It will be consolidated with the Mineral Steam road under the name of Chihuahua Traction Co., and is capitalized at $1,000,000 gold. The roads are to be improved and modernized and an aerial tramway put in to the Santa Eulalia mines under an exclusive concession. Several miles of tramways are contemplated.

SALTILLO.—It is reported that A. W. Lillendahl, Saltillo, has purchased the street car system in this city and will change the motive power to electricity.

LIGHT AND POWER PLANTS.

CITY OF MEXICO.—American capitalists propose to establish generating plants on the six channels known as the Ayoloco, Zoquitzingo, Amecameca, Tinango, Temamatla and San Juan de Dios Rivers, which carry the water from the peak of Ixtaccihuatl to Lake Xochimilco. Afterwards the water will be utilized for irrigation purposes.

TETELA, PUEBLA.—Frank Brennan, City of Mexico, has applied for concession to utilize 1,000 liters of water per second, for motive power, from the Canada River, in this district.

BUILDINGS.

CHIHUAHUA.—A site has been selected in this city for the eight new barracks for infantry, one for cavalry, a headquarters building and a military hospital, to be erected by the federal government.

CITY OF MEXICO.—Dwight Furness is stated to have abandoned idea of building a large hotel at Ribera Castellanos, and will build instead a 30-room provisional hotel.

TEHUACAN, PUEBLA.—Leo Fleishman, who has a lease of the mineral springs at Tehuacan, proposes to erect a large hotel at the springs, at an est. cost of $200,000.

TEPIC.—The war department is to construct barracks, with a capacity for 700 men, at Tepic. $19,000 has been appropriated for the work.

WATER-WORKS.

ACTOPAN, HIDALGO.—This city proposes to introduce water, and considerable pipe will be required. The governor's aid in the execution of the project has been asked.

STREETS AND ROADS.

GUADALAJARA.—Mexican Asphalt Paving & Construction Co. closed a contract Aug. 9 for constructing 20 blocks of asphalt paving for about $101,250. Paul H. Harwood, Engr. of Company, will be in charge of work. This is stated to be but the first step mapped out by Governor Ahumada for the improvement of this city. Asphalting of all the principal streets is contemplated, as well as the enlargement of the present park.

VERA CRUZ.—Considerable asphalt paving of streets in this city is contemplated.

MANUFACTURING PLANTS.

CASAS GRANDES, CHIHUAHUA.—Lee Booker, El Paso, Tex., will erect large lumber mills in the Sierra Madres, southwest of here, according to reports.

CITY OF MEXICO.—J. Solomon, City of Mexico, proposes, it is stated, to establish a factory which is to be devoted to the manufacture of furniture and other articles from the bark of the cork tree. He is to invest some $250,000 in the enterprise, and has applied to the Mexican Government for permission to import the necessary machinery free of duty.

CITY OF MEXICO.—Local reports quote Ramon Gonzalez, owner of the San Vincent cotton mills at Celaya Guanajuatos, as stating that they are erecting an extension to their mills, and that they hope to soon supplant the steam plant now used with electric power.

CITY OF MEXICO.—The Mexican Lumber Co. has been reorganized, and will greatly enlarge its operations in Mexico. Additional timber lands have been purchased, and the lumber railroad has been extended. J. J. Moyland and George H. Copeland, of this city, are interested.

CITY OF MEXICO.—Schwartz System Brick Co., 8 Bridge St., New York, is to construct a plant in this city.

CITY OF MEXICO.—The Mexican Government has issued a decree exempting from duties all imported articles which will contribute to the establishment of factories and commercial concerns in the new territory of Quintano Roo. The decree is to be in effect for one year, beginning Sept. 1.

CORDOBA, VERA CRUZ.—The Miller Plantation Co. has let the contract to the American Bridge Co. for the construction of a large steel sugar house, cane shed, machinery building, etc., on its plantation situated near here. The San Juan Sugar Corporation will erect a sugar mill of 1,000 tons daily capacity on the Miller plantation.

SALINA CRUZ, TEHUANTEPEC.—Parraga Bros., 56 Pine St., New York, who recently acquired extensive salt deposits near here, have purchased machinery to operate mines on a large scale. They will be in the market in November for portable rails, etc., for a tramway.

TEOLOYUCAN.—It is stated that the Teoloyucan Brick Co., which has its plant at Teoloyucan, 36 kilometers north of Mexico City, may begin the manufacture of sand-lime brick.

MISCELLANEOUS.

SMELTER.—Monterey.—It is believed that the Norias de Bajan Mining Co., of Monterey, will build a smelter in the near future.

MINING MACHINERY.—Bacubirito, Sinaloa.—Henry H. Hughes will install machinery and operate several old Spanish gold mines in this district.

SMELTER.—Ocaca.—Plans are stated to be maturing for new smelter at this place. T. J. Ryder, care Waters Pierce Oil Co., City of Mexico, is reported interested.

MINING MILL.—Parral, Chihuahua.—The Parral Milling Co. is to increase the capacity of the mill from 70 tons to a capacity of 100 tons. A. H. Lubeck is Mgr.

MINING MILL.—Chihuahua.—El Rayo Mining & Developing Co., which is developing the El Rayo mine, and of which H. L. Brown is Mgr., will ultimately build a mill.

STAMP MILL.—Monterey.—Local reports state that the Balsas Valley Mining Co., Mina Grande, San Nicolas del Oro, Guerrero, contemplates erecting 60 to 100 stamp mill.

MINING MACHINERY.—Guanacevi, Durango.—A Belgian syndicate has purchased the Carbonero group of mines, near here, and will install considerable machinery.

WAREHOUSE.—Roberto Boker & Co., City of Mexico, will, it is stated, erect a large warehouse here. Engineer Federico Wull, of Torreon, may be able to give information.

MINING MILL.—Monterey.—Local reports state that G. A. Case, Salita Rose, Sonora, will organize a $500,000 company of London capitalists to develop Sonora mining claims. A mill will be erected.

SMELTING PLANT.—Guadalajara.—Alfredo M. Carpanello, Auguascalientes, is reported to be trying to interest capitalists in a company to build a smelting plant in the State of Jalisco, probably at Guadalajara.

CONCENTRATOR.—Torreon.—It is stated that the Cia Metalurgica de Torreon, owner of the Torreon smelter, has approved plans prepared by Col. W. Pender for a concentrating plant for the San Diego mine at Santa Barbara.

MILL.—Mascota, Jalisco.—United Mexican Mining & Smelting Co. is preparing to increase its operations at its cinnabar mines near here. This company will erect a customs mill on the San Geronimo hacienda in the Navidad district. F. W. Page is Mgr.

PLACER MINING.—Buena Vista, Sonora.—The English, Alaska & Mexican Mining Co., which owns 1,000 acres of gold placers near here, is preparing to inaugurate placer mining on a large scale, and it is stated that a large amount of machinery will be installed.

MINING WORK.—Chihuahua.—The Compania Minera Estrellas Negras is to be incorporated in Torreon under presidency of John Schramm, to work and develop the Adolphus Gustavo claim in the Sierra Almoloya district, near railway station Troya, Chihuahua.

MINERAL WATER.—City of Mexico.—The department of fomento has granted permission for the exploration of the Aguanaval River at Picardias, and a number of wells will be drilled for mineral water. Some machinery has already been ordered from the United States.

MAGNETIC OBSERVATORY.—City of Mexico.—The plans for the magnetic observatory to be established on the Cuajimalpa hills, in the federal district, are now being perfected by the department of fomento, and construction will commence soon.

DREDGES.—Suaqui Grande, Sonora.—Chicago Gold Placer Co., which is operating on the Yaqui River, near Suaqui Grande, will, it is said, order two new dredges, similar to the one now at work. The dredges will be of the Risdon type, and cost about $120,000 each, the capacity being 3,000 cu. yds. of earth.

METEOROLOGICAL OBSERVATORY.—Frontera, Tabasco.—The department of war has ordered the construction of a meteorological observatory at Frontera, to be connected by wire with all the ports and observatories of the republic. The Tabasco observatory will also be provided with wireless telegraph apparatus.

REDUCTION PLANT.—City of Mexico.—Local reports state that the Maria Luisa y Anexas Mining Co., operating the Maria Luisa mine, in the state of Michoacan, on the Tacambaro River, is making arrangements to establish a reduction plant. The office of the company is at 88 Calle de Cinco de Mayo, City of Mexico.

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LIGHTHOUSE.—San Benito, Chiapas.—The government has purchased land for the erection of a lighthouse near the port of San Benito, near the Guatamala frontier. The plans have been approved, and construction of the lighthouse will commence after the termination of the rainy season. The work will be under the charge of Victorio E. Gongora, the engineer appointed by the Director General of Lighthouses.

FOREIGN CONTRACTS—EXPORT NEWS.

GARBAGE PLANT.—Argentina.—City of Buenos Aires is planning erection of large plant for burning garbage.

ELECTRIC PLANT ENLARGEMENT.—Norway.—It is stated that it has been decided to enlarge the electric light and power plant of Christiania.

STREET ROLLERS.—Bulgaria.—The ministry of Bulgaria has granted $15,440 for the purchase of [illegible] street rollers for the use of the capital, Sofia.

RAILROAD CARS.—Bulgaria.—Bulgarian Government is about to increase rolling stock of its railroads, and among other things will add 150 new freight cars.

WATER-WORKS.—Chili.—The Superintendent of Public Works of Santiago de Chili is taking bids until Oct. 1 for building municipal system of water-works.

ELECTRIC PLANT IMPROVEMENTS.—England.—The Municipal Council of Rochdale is planning to spend about $200,000 in enlarging and improving its electric plant.

KURSAAL.—England.—Municipal corporation of Bournemouth is considering erection of a kursaal. The estimated cost of the site alone is set at about $350,000.

IRON BRIDGE.—Spain.—José Engenio Ribera, Engr., is preparing plans and specifications for building an iron bridge over the Urumea River at San Sebastian, Spain.

ELECTRIC PLANT.—South Africa.—The City Council of Kalk Bay Station, Cape Colony, has been empowered to issue bonds to erect a municipal electric light and power plant.

ELECTRIC RAILWAY.—Switzerland.—The Schaffhausen-Schleitheim Electric Street Railway of Schaffhausen, Switzerland, is reported to be in the market for rolling stock.

WHARVES, DREDGING.—Italy.—The harbor of Spezia is to be improved by dredging and the construction of additional wharves, involving an expenditure of over $200,000.

WATER-WORKS.—Austria.—Plans and specifications for municipal water-works for Meran, prepared by Engineer Maurer, are stated to have been accepted by the Council of that city.

TELEGRAPH SYSTEM EXTENSION.—Guatemala.—The Guatemalan Government is considering the advisability of making a considerable extension of its present telephone and telegraph system.

BRIDGE.—Bulgaria.—The Governments of Bulgaria and Roumania are consulting as to the construction of a new railroad bridge over the Danube, to connect the towns of Giurgevo and Rustchuk.

WIDENING BRIDGE.—England.—Borough Council of Paddington, a suburb of London, is considering widening Carlton-Terrace bridge and its approaches at an estimated cost of $525,000.

ELECTRIC PLANT.—England.—The City Council of East Retford, in Nottingham County, England, contemplate building a municipal electric light and power plant. Population of place is over 10,000.

HARBOR IMPROVEMENTS.—Spain.—The harbor authorities of Motril, a place on the southern coast of Spain, in the Province of Granada, contemplate making extensive improvements in their harbor.

ELECTRIC RAILWAY.—Italy.—The Electric Street Railway Co., of Genoa, is to extend its present system of lines and will purchase a considerable quantity of rolling stock; electric motor cars, for the most part.

ELECTRIC RAILWAY.—Argentina.—A movement is under way to organize a company for the purpose of building an electric railroad at Rosario, a city of about 122,000 inhabitants, in the Province of Santa Fé, Argentina.

BRIDGE.—India.—It is reported that a bridge over the river Ganges is to be built by the East Indian government. In conjunction therewith the river bed is to be regulated. The estimated cost of both projects is about $4,000,000.

WATER MAIN.—England.—Town Council of Salford has entered into an agreement with the Manchester Corporation whereby the latter will construct a 24-in. water main from the Denton reservoir, at an estimated cost of $160,000.

RAILROADS.—Argentina.—The railway systems of the Argentine Republic aggregates 11,875 miles, with 385 miles of subsidiary railroads. New railroads to the extent of 3,241 miles are projected, and 2,622 miles of lines are in course of construction.

DOCK, ELECTRIC RAILWAY.—England.—We are informed that Sir John Aire is excavating a $10,000,000 dock for the city of Bristol, and that Mr. A. Krauss is constructing 50 miles of electric railway. Lorin A. Lathrop is U. S. Consul at Bristol.

IRON WORKS.—Italy.—Large iron and steel works are to be erected by the Ferriere Italiane Co., Rome, Italy, at Torre Annunziata, near Naples. A large quantity of materials, necessary for equipment of plant, will undoubtedly be purchased in foreign markets.

DOCK IMPROVEMENTS.—England.—The Great Central Railway Co. is stated to have decided upon dock improvements, involving an expenditure of nearly $1,250,000 at Grimsby. A service of motor trains is to be instituted between that place and Cleethorpes.

WATER-WORKS.—Argentina.—City authorities of La Plata, Ensenada, and Tolosa have decided to equip their respective municipalities with water-works, and the work has been intrusted to Miguel A. Ponce, C. E., Buenos Aires (Oficina de Obras de Salubridad).

COLD STORAGE PLANT.—Russia.—Construction of cold storage warehouse in St. Petersburg is under consideration. It is likely that necessary machinery will have to be imported. Information may be obtained by addressing office of Imperial Ministry of Railroads, St. Petersburg.

BATH HOUSES.—Germany.—The Hessian government has asked the legislature for a grant of $1,547,000, to be expended for improvements of the fiscal bathing establishment at Bad Nauheim. New bath houses with modern appurtenances come in for a large share of the planned improvements.

RAILWAY CONSTRUCTION.—Brazil.—Bids will be received until Sept. 22 at the Secretariat of Agriculture, Bahia, for the construction of a railway from Ilheos to Conquista (Victoria). The competition will turn upon (1) the amount of guaranteed interest or subvention per kilometer, (2) the term of the guarantee, (3) the suitability of the tenderer. A deposit of about $5,000 is required to qualify any tender.

ELECTRIC RAILWAY.—Italy.—It is proposed to build an electric railroad between Aquila and Teramo, cities which are located in the Abruzzi e Molise Compartimento, Italy, about 35 miles apart. Detailed information about this road may be obtained from Cav. Camerini, sindaco (mayor) of Aquila.

RAILWAYS.—Honduras.—We are informed that there is not much construction work under way in this country. A few short railways, however, are being built for the purpose of getting out bananas, and all of the necessary materials will be bought in the United States. Dean R. Wood is U. S. Consul at Ceiba, Honduras.

RAILWAY CONSTRUCTION.—Tunis.—In order to facilitate the working of the phosphate mines of Kalaa-Djerda, the Government of Tunis has decided to proceed with the construction of a branch line joining Kalaa-Djerda with the railway from Tunis to Kalaaes-Senam. The sum allocated for this purpose is $380,000.

RECONSTRUCTING TRAMWAYS.—England.—County Borough of West Ham, Fred. E. Hilleary, Town Clk., is asking bids until Sept. 7 for reconstructing about 3 miles double-track (permanent way and paving, including copper bonding) of existing horse tramways. John Edward Walker, 29 Great George St., Westminster, is Engr.

RAILWAY.—India.—A franchise has been granted Great Indian Peninsula Railway Co., which has an office at 48 Copthall Ave., London, E. C., England, to build a standard-gage railroad from Warora to Belapur, in the central provinces of British India. The road is to be about 38 miles long and the cost is estimated at $1,036,098.

ELECTRIC RAILWAY.—Spain.—The Sociedad Tranvias de Saragossa, Spain, has requested the City Council to grant it a concession to make several extensions of its present system of tracks. It is reported that the concession will be granted, in which case the street railway company will make purchases of steel rails and additional rolling stock.

ELECTRIC CRANES AND LOCOMOTIVES.—England.—It is stated that bids are asked for furnishing three 3-ton electric cranes and two electric locomotives, which are intended for the use of the London Electric Works at Greenwich. Detailed information may be obtained at the County Hall, Spring Gardens, London, S. W., England, upon depositing the sum of $9.73.

SEWAGE DISPOSAL.—England.—The report of Messrs. Mansergh and Son on the subject of Leeds sewage disposal has been submitted to the City Council. Application is to be made for sanction to borrow $800,000 over and above the sum of $1,800,000 already sanctioned in connection with the corporation scheme for dealing with the Quarry Hill unhealthy area.

ROLLING STOCK.—Brussels.—The Baden Railways will receive bids until Sept. 8 for supply of 50 covered goods wagons, 50 open goods wagons, 50 platform wagons, 25 open high-sided wagons, 25 wagons for through trains, 8 service wagons, 2 trolleys—all the above to be two-axled; 15 four-axled luggage vans. Tenders will be received at the Directorate-General of Railways, Karlsruhe.

ELECTRIC PLANT.—Portugal.—The municipal authorities of Barcellos, a small place on the Cavado River, about 25 miles north of Oporto, Portugal, are willing to grant a 30-year concession to a company for the erection of an electric light and power plant. One of the stipulations which will be exacted of such a company will be that it furnish the municipality with 160 16-c. p. incandescent lights and six 50-c. p. arc lights for $1,620 per annum. This work was mentioned in our issue of Aug. 4.

WATER-WORKS.—England.—We are informed that Leeds Corporation, Robt. E. Fox, Town Clk., Leeds, is asking bids until Sept. 1 for construction of the Colsterdale Reservoir. The reservoir will be constructed of an earthen embankment, which, at its maximum, will be 663 yds. long and 110 ft. high. It will have the usual waste weir, bywash, draw-off tunnel, gage basin, etc. Drawings, specifications, etc., may be seen at City Engineer's office, Municipal Bldg., Leeds. Lewis Dexter is U. S. Consul at Leeds.

ARCHITECTURAL PLANS.—Denmark.—The Royal Danish Ministry of Public Works, Copenhagen, will, up to Nov. 30, receive plans for the restoration of the Christiansburg Castle, which was destroyed by fire in 1884. The Rigsdag, which has appropriated the sum of $1,608,000 for the purpose of restoration, has provided that the plans for the castle shall be open to competition. Cash prizes amounting in value to $3,484 will be awarded for the best six sets of plans, the prizes ranging from $1,072 to $268. Details of the competition may be obtained by sending $5.36 to the Ministry of Public Works at Copenhagen, Denmark.

RAILWAYS.—Spain.—Madrid reports state that following concessions have been granted for the construction and working of the following railways: (1) A meter gage line from Leon to Benavente, 99 years; (2) a prolongation of the railway from Andoain to Plazola, from the latter place to Urto; (3) a meter gage line from Colmenar de Oreja to Alcázar de San Juan; (4) a 60 centimeter gage railway from Gozquez to the railway station of Ciempozuelos, 99 years; (5) a further decree extends for two years the time allowed the "Sociedad General de Ferrocarriles Vasco Asturiania" for the construction of a single line railway from Ujo to Trubia.

DOCK EXTENSIONS.—England.—Recommendations for the improvement of docks at Liverpool are stated to have have been made to Mersey Docks and Harbor Board, as follows: An extension of the Brunswick Dock over the site of the Union Dock and Brunswick Graving Docks, and a passage 100 ft. wide thereto from the Toxteth Dock, with the necessary swingbridge; a single-story shed on the west quay of the above-named extension; and an extension of the single-story shed on the east quay of the Brunswick Dock and the roadway along the same. An estimated total expenditure of $1,110,000 is involved.

CONSTRUCTION WORK.—Bermuda.—We are informed that with the exception of Messrs. C. H. Walker Co., Ltd., London, who have large contracts with Imperial Government for fortification works, docks, etc., very little public work of importance is being carried out in this country. G. W. Volckmon, Hamilton, Bermuda, is Resident Manager for Messrs. Walker Co. The corporation of Hamilton occasionally does a little work, a wharf extension or something like, of trifling importance. The Summer School of Biology, of which Prof. Chas. L. Bristol, of New York University, New York city, is in charge, will hold its second summer session this season. The colony will erect the buildings for the station and in time it is hoped that the school at Bermuda will equal those of Naples. W. Maxwell Greene is U. S. Consul, Hamilton.

RAILWAY AND OTHER WORK.—Haiti.—We are informed that a railroad concession from Gonaives to the interior of Haiti, about 100 miles, has been granted to E. A. Blanton, Jr., Phila. Bourse, Philadelphia, Pa., through R. Gardere, his representative in Port-au-Prince, Haiti, and that the construction of this road will be commenced at once by Mr. Louis Dalmas, of Philadelphia, and Mr. Blanton representing Philadelphia capitalists. They will equip a 42-in. gage with the most modern of American rolling stock and appliances. They will also build a wharf at Gonaives, which will allow the steamers to load and discharge cargoes without the use of lighters. Mr. Blanton has also extensive mineral concessions which they will actively develop and will use American mining machinery. Mr. Louis Dalmas, of the New Land Title Building, Philadelphia, accompanied Mr. Blanton to Haiti with Dr. J. B. Myers early in July and his impression of Haiti and its people and General Nord Alexis, the President of that republic, is the most favorable. Mr. Blanton has been going regularly to the Republics of Haiti and San Domingo for the past three years and has traveled through the interior over the mineral belts in both republics, and believes rich deposits of gold, silver, copper and iron will soon be developed and extracted by American capital. Many opportunities are offered there to American citizens. Mr. Blanton has always been well received and treated by the President and their Ministers and also the people in the country everywhere. They are most anxious to have American capitalists come there and in a practical way develop their natural resources. Two years ago this month Mr. Blanton secured about 1,200 square miles of mineral lands by concession in San Domingo and a railroad concession from San Domingo City to Las Calderas, near Azua. The San Domingo Exploration Co. and San Domingo Southern R. R. Co. are now restarting the operations there, having been stopped by the perpetual revolutions up to a short time back. Our correspondent has no doubt that from now on the development of mineral deposits both in Haiti and San Domingo will forward with rapid successes. He can say from personal observations in the island that capital well handled will give large and satisfactory returns. The railroad which will be built through the interior passes through a most fertile country well watered and timbered. Cotton in considerable lots is gathered from trees 10 ft. to 15 ft. high, and several crops can be gathered during the year. Fruits, most delicious, are growing wild and in abundance. Coffee, cocoa, sugar-cane, and in fact most anything planted will give large returns. Gonaives is the best protected port from storms in the whole island and is most conveniently located for ships passing between Cuba and Haiti to Panama Canal and the South.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, **UNLESS OTHERWISE REQUESTED**, which request will be honored absolutely. The information **in all cases will be sent to our advertisers** handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

PUMPING ENGINES.—Augusta, Me.—W. B. Getchell informs us that he is in the market for pumping engines.

HYDRAULIC RAMS.—Tampa, Fla.—We are informed that R. F. Bettis, Co. Surv., is in need of a hydraulic ram for irrigation purposes.

CEMENT DRYING MACHINE.—Philadelphia, Pa.—Chas. F. Schaeffer, 3105 Gray's Ferry Road, writes for information concerning a cement drying machine.

RAIL LOADING AND UNLOADING MACHINES.—Brisbane, Australia.—William Pagett, Ch. Engr. Queensland Railways, writes for particulars, including prices, of the above machines.

ROAD ROLLERS (2) NEW AND SECOND-HAND, GRADERS (2), WHEELED SCRAPERS.—Boonville, Ind.—White & Engenmann write us that bids are asked until Aug. 29 for the above.

SUB-AQUEOUS ELECTRIC LIGHT.—Hamilton, Ont., Can.—Captain Midford, 36 Emerald St. South, writes for the names and addresses of manufacturers of an electric light for sub-aqueous work.

PLATES FOR PRINTING CROSS-SECTION PAPER.—Stanford University, Cal.—W. F. Hyde, Mgr. Stanford University Bookstore, writes us for the name and address of a concern manufacturing a plate for printing cross-section paper.

REINFORCING LIGHT PLATE GIRDERS.—Houston, Tex.—W. A. Spalding, Div. Engr. H. & Tex. C. R. R., Houston, writes us that the company has a number of light plate girders which need reinforcement, and it is anxious to secure information regarding satisfactory plan for reinforcing such girders under traffic. I. A. Cottingham is the Engr. M. of W.

RECORDING GAGES.—South Norwalk, Conn.—Jos. B. Rider, Consult. Engr., writes that he would like to communicate with recording gage manufacturers. He wishes to record the fluctuation in height of water flowing over about an eighteen weir so as to have a constant memoranda of the amount fed to filter beds, that may vary from one-half to two million gallons per day, and as near as possible have the record show data from which the daily amount can be quickly computed or directly shown.

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INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE THOMSON METER CO., 83 Washington St., Brooklyn, N. Y., announces the sale of 4,347 water meters during the month of July.

HASKELL & BARBER, of Michigan City, Mich., has received a contract for furnishing the Southern Railway Co. with 3,000 wooden cars.

ANDREW DALL & SON, building contractors, announce that they have moved their offices to rooms 405-7-9-11 The Lennox Bldg., Cleveland, O.

MICHAEL KADAR, 113 East 18th St., New York, now on a visit to this country, announces that he would like to secure agencies for American manufacturers.

THE FOUNDATION & CONTRACTING CO., New York, announces that on and after Aug. 20th, the name of the company will be changed to the Foundation Co.

THE AMERICAN LOCOMOTIVE CO., New York, has received an order from the Northern Pacific Railroad Co. for 31 locomotives, to be delivered in September and October.

THE PITTSBURGH GAGE & SUPPLY CO., Chicago, Ill., has received an order from the American Sugar Refining Co., New Orleans, La., for a 16-in. Pittsburgh Vacuum Exhaust Head.

THE RAND DRILL CO., New York, is shipping an Imperial Compound Compressor to be used on the extension of the Chicago Drainage Canal. A compressor of the same type is already in operation on this work and is furnishing compressed air for ten Littel Giant Drills (No. 3¼). The two compressors have a combined capacity of furnishing 3,400 cu. ft. of free air per minute.

THE B. F. STURTEVANT CO., of Boston, who has recently moved to its new office and works at Hyde Park, Mass., is to press the sale of its economizers. A new economizer catalogue has recently been issued. This catalogue contains the details of the Sturtevant Standard & Pony types of economizers in comparison with those of other makes, the advantages, sizes, weights, accessibility, repairing, etc. It also treats of the subject of mechanical draft and natural draft, and is of interest to all steam users.

THE WELLMAN-SEAVER-MORGAN CO., Cleveland, O., has been awarded a contract to manufacture and erect for the Fresno Copper Co., Ltd., of England, what will be, when completed, one of the most complete copper smelting and refining plants ever constructed. The plant is to be located in Fresno County, California, and at present, will consist of two large copper smelting furnaces with a complete equipment of hot blast stoves, blowing engines, Bessemer converting plant and stock-handling equipment.

THE OTIS ELEVATOR CO., New York, has been awarded the contract for furnishing Boston's large department store, controlled by the interests of which Henry Siegel is President, with the largest equipment of escalators (moving stairways) in the world. Ten of these modern appliances will be installed. There will be two lines of escalators running between the basement and the fifth floor, five up and five down. By means of special mechanism the descending escalators can be reversed and utilized to carry patrons of the store to the upper floors in the extremely busy seasons.

THE ELECTRIC CONTROLLER & SUPPLY CO., of Cleveland, Ohio, announces that its exhibit at the World's Fair, at St. Louis, Mo., is the Direct Motor Drive for Planers. This Drive brings the planer to the same high efficiency as the motor-driven lathe. The motor is geared direct to the cross-shaft and instant change and control of speed is obtainable without changing gears or stopping the planer. A new system of control specially adapted to Mill Table Motors is shown in operation. This controller makes it impossible to injure the motor, by "plugging," and will be of interest to all engineers and mill men. Several distinct lines of crane controllers are shown. These controllers are specially designed to withstand the rough handling usually the lot of such apparatus in mills and factories. A line of knife switches, Cast Grid Resistance Banks, Solenoids, Magnetic Friction and Stop Brakes and Crane Fittings are shown and a working exhibit of the "Clark" Lifting Magnet. This magnet is suspended on a Brown Hoisting Machinery Co. tramway hoist, and will be of interest to those who have billets, slabs or plates to handle.

THE M. GARLAND CO., Bay City, Mich., manufacturers of saw mill and conveying machinery, is furnishing the machinery, including a Garland 8-ft. band mill, carriage, steam feed, with double end rotary valves, Garland Steam Nigger, Steam Logloader, Gang Edger, Live Rolls, etc., for remodeling the old Detroit Mill, formerly owned by the late Edmond Hall, and recently purchased by Frank Buell & Co. The M. Garland Co. report a very brisk business, and consider the prospects for the future very promising.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*PAVING.—Dowagiac, Mich.—Following bids were received by City Council, Aug. 12, for paving Trent, Commercial and Beeson Sts., with metropolitan brick. Contract was let to T. M. Kemp & Sons. Paving is guaranteed for ten years, and is to be laid on 5-in. Portland cement concrete foundation and is to have 6 × 18-in. cement curb. J. S. Haines, Cy. Surv. (1) G. S. Van Dusen, Michigan City, Ind.; (2) W. B. Hutchinson, Michigan City, Ind.; (3) C. H. Defreese, South Bend, Ind.; (4) F. M. Kemp & Sons, Middleton, O.; (5) W. W. Hatch & Sons, Goshen, Ind.; (6) Andrews & Vrooman, Dowagiac, Mich.:

Bids received at Dowagiac, Mich., August 12, 1904, for paving Trent, Commercial and Beeson Sts., with Metropolitan Brick.

		(1)	(2)	(3)	(4)	(5)	(6)
Earth excavation, 1,765 cu. yds.	per cu. yd.	.32	.30	.20	.25	.25	.35
Paving, 12,302 sq. yds.	per sq. yd.	1.80	1.75	1.71½	1.64	1.95	1.80
Curb, 2,220 lin. ft.	per lin. ft.	.41	.30	.20	.30	.30	.15
Sewers, 8-in., 1,958 lin. ft.	per lin. ft.	.30	.40	.25	.35	.38	.30
Sewers, 10,in., 269 lin. ft.	per lin. ft.	.42	.50	.45	.40	.44	.75
Catchbasins, 5		.17	.10	.16	.30	.15	.30
Manholes, 1		.21	.40	.15	.30	.30	.25
Inlets, 39		6.00	5.00	4.00	15.00	15.00	5.00
Totals		$24,620	$23,927	$24,250	$24,128	$26,649	$24,253

*LOCKS AND DAMS.—Vicksburg, Miss.—Following bids were received Aug. 17 by Capt. J. F. McIndoe, U. S. Engrs., for construction of Locks and Dams Nos. 4 and 6, Ouachita River, Ark. and La. (1) Chicago Engineering & Construction Co., Great Northern Bldg., Chicago, Ill.; (2) Dravo Contracting Co., Lewis Block, Pittsburg, Pa.; (3) William W. Beerce, Ltd., Hennen Bldg., New Orleans, La., bid only for structural steel, etc., f. o. b., Monroe, La., and Camden, Ark.:

Bids received at Vicksburg, Miss., Aug. 17, 1904, for Construction of Locks and Dams, Nos. 4 and 6, Ouachita River, Ark.

	(1)	(2)	(3)
Lock and dam No. 4:			
Lockkeeper's house	$4,800.00	$6,000.00	....
Maneuvering boat	3,500.00	6,250.00	....
20-in. pipe valves, 8	200.00	200.00	....
Winches, 4	125.00	200.00	....
Grubbing and clearing, ¼-acre	200.00	400.00	....
Excavated material, 16,500 cu. yds	.75	.60	....
Portland cement concrete, 14,700 cu. yds	7.50	8.00	....
Gravel filling, 1,000 cu. yds	1.50	1.50	....
Back fill and embankment, 5,500 cu. yds	.60	.90	....
Concrete paving, 3,140 sq. yds	2.00	2.50	....
Oak mitre sills, posts, etc., 6,100 ft. B.M	50.00	100.00	....
Framed timber, 16,100 ft. B.M	30.00	45.00	....
Needles, 28,566 ft. B.M	60.00	95.00	....
Sheet piling, 39,500 lin. ft	.65	.95	....
Foundation piles (driven) 59,600 lin. ft	.25	.35	....
4-in. tile drain pipe, 500 lin. ft	.20	.20	....
20-in. cast iron pipe, 250 lin. ft	6.50	7.00	....
Structural steel, 285,000 lbs	.10½	.08½	.05¾
Cast iron, 64,900 lbs	.08½	.08½	.06$\frac{6}{10}$
Bolts, special irons, etc., 9,000 lbs	.08	.08½	.07¼
Sprocket chain, 2,700 lbs	.08	.08½	.12
Chain, 2,300 lbs	.08½	.08½	.07¼
1-in. steel bars, 22,400 lbs	.06	.08½	.05
Totals	$226,874.00	$253,669.00	
Lock and dam No. 6:			
Lockkeeper's house	4,800.00	6,500.00	....
Maneuvering boat	3,500.00	6,700.00	....
20-in. valves, 8	200.00	225.00	....
Winches, 4	125.00	225.00	....
Grubbing and clearing 1¼ acres	200.00	200.00	....
Excavated material, 18,000 cu. yds	.75	.72	....
Portland cement concrete, 12,800 cu. yds	8.00	10.00	....
Gravel filling, 1,000 cu. yds	1.50	1.80	....
Backfill and embankment, 7,900 cu. yds	.60	.90	....
Concrete paving, 1,570 cu. yds	2.00	3.60	....
Mitre sills, posts, etc., 6,100 ft. B.M	50.00	108.00	....
Framed timber, 16,100 ft. B.M	30.00	50.00	....
Needles, 20,200 ft. B.M	60.00	108.00	....
Sheet piling, 29,800 lin. ft	.65	1.08	....
Foundation piles (driven) 31,400 lin. ft	.30	.45	....
4-in. tile drain pipe, 500 lin. ft	.20	.20	....
20-in. cast iron pipe, 250 lin. ft	6.50	7.20	....
Structural steel, 250,000 lbs	.10½	.10	.05¾
Cast iron, 51,000 lbs	.08½	.10	.06$\frac{6}{10}$
Bolts, special irons, etc	.08	.10	.07¼
Sprocket chain, 2,700 lbs	.08	.10	.12
Chain, 2,000 lbs	.08½	.10	.07¼
1-in. steel bars .18,800 lbs	.06	,10	.05
Totals	$201,264.00	$256,881.00	

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

TRANSFORMERS.—General Electric Co., Schenectady, N. Y. Paper; 5¼ × 7¾ ins.; pp. 39; illustrated.

A handsome booklet describing the "Type H" (core-type) transformers, and their points of superiority over other makes.

GAS ENGINES.—Foos Gas Engine Co., Springfield, O. Paper; 6 × 9 ins.; pp. 4.

All the distinctive points of design and construction of the Foos engine are here stated in orderly arrangement, so that in four pages there is offered a very complete and concise selling argument.

LIGHTNING ARRESTERS.—General Electric Co., Schenectady, N. Y. Paper; 5¼ × 7¼ ins.; pp. 75; illustrated.

Some general discussion of the subject of lightning arresters is given here, followed by full lists of the company's various arresters and accessories, such as choke-coils.

POWER TRANSMISSION BY COMPRESSED AIR.—Ingersoll-Sergeant Drill Co., 26 Cortlandt St., New York. Paper; 5½ × 8½ ins.; pp. 4; illustrated.

Under the title "Before and After" the results of the central compressed-air power installation at the North Amherst (O.) quarry of the Cleveland Stone Co. are exhibited. This plant was fully described in Engineering News of July 7, 1904.

GARBAGE AND NIGHT SOIL INCINERATORS.—The International Garbage Crematory Co., Buffalo, N. Y. Paper; 3 × 6 ins.; pp. 19; illustrated.

Both stationary and portable incinerators are described in this catalogue. The incinerators are arranged to serve, between times of firing, as privies. The fires are lighted without disturbing the contents of the privies. Oil, coal or wood may be used as fuel.

STEAM TURBINES.—General Electric Co., Schenectady, N. Y. Paper; 8 × 10½ ins.; pp. 28; illustrated.

The "Curtis" steam turbine is illustrated in this pamphlet by many fine half-tones, which are accompanied by a few pages of text devoted to some special features of this type of turbine. Some comparative drawings of equivalent piston engines and steam turbines are added, as a striking illustration of the compactness of the latter.

STEEL AND CONCRETE BRIDGES.

Towson, Md., August 19, 1904.
Office of Baltimore County Roads Engineer,

Sealed proposals will be received by the Highways Commission of Baltimore County, at their office in the Court House, Towson, Md., on Thursday the 8th day of September, 1904, at 12 o'clock noon, for the following improvements:

No. 1. Steel highway bridge on the Painters Mill Road, over Little Gunpowder Falls, clear span 30 feet, width of roadway 16 feet in clear, height above bed of stream about 8 feet, and 3-inch white oak flooring.

No. 2. Steel highway bridge on May's Road over Piney Run, clear span 30 feet, width of roadway 16 feet in the clear, height above bed of stream about 7½ feet, and 3-inch white oak flooring.

No. 3. Steel highway bridge on the Quaker Hill Road over Marcella Branch, clear span 39 feet 4 inches, width of roadway 16 feet in the clear, height above bed of stream about 7 feet, and 3-inch white oak flooring.

Bids for highways bridges for Nos. 1, 2, and 3 shall be for the superstructure complete in place ready for use and designed according to Cooper's specifications for steel highways bridges, "Class C." (Steel joists). Revised Edition of 1901.

Each bidder is required to submit his own design, and his bid shall be accompanied by a certified check for $200.

A surety bond for an amount equal to the contract price is required of the successful bidder.

REINFORCED CONCRETE BRIDGES TO REPLACE OLD BRIDGES.

No. 4. Reinforced concrete bridge on the Washington Pike over Sutton's Branch, clear span 15 feet, width of roadway 20 feet in the clear and height above bed of the stream about 5 feet. Masonry of old bridge in good condition; North abutment 27 feet long, South abutment 22 feet long and will have to be extended:

No. 5. Reinforced concrete bridge on Green Spring Avenue, over branch of Jones Falls; clear span 20 feet, width of roadway 19 feet in the clear, and height above bed of stream is about 7 feet. Entire new structure required.

No. 6. Reinforced concrete bridge on the Marcella Road over small stream near Granite; clear span 10 feet 6 inches, width of roadway 19 feet in the clear, height above bed of the stream about 6 feet. Entire new structure required.

Bridges Nos. 4, 5 and 6 shall be designed to carry concentrated live load of 12 tons on two axles ten-foot centers and upon the remaining portion of the floor a load of 100 pounds per square foot of floor.

Exposed faces shall be formed of mortar of the same proportion of cement and sand as that which forms the matrix of the concrete.

Facings shall be not less than 1 inch nor more than 2 inches in thickness. The facings and backing shall be formed simultaneously in the same horizontal layer.

Bids must be for the entire structure complete, ready for use, including back filling and restoring approaches, except bridge over Sutton's branch where the old masonry can be used.

A certified check for $200 shall accompany each bid. A surety bond will be required for an amount equal to the gross amount of contract.

No. 7. For the improvements of Park Heights Avenue from Wiley Avenue to Old Court Road, about 4 miles in length.

The roadbed for macadam construction is to be 24 feet wide, with an earth roadbed of 18 feet adjoining.

The approximate amount of work to be done is as follows:

9,000 cu. yds. of excavation (unclassified).
600 cu. yds. of Borrow excavation.
2,600 cu. yds. of No. 1 broken stone.
55,000 sq. yds. of 4-inch macadam in place.
100 cu. yds. of cement of rubble masonry.
100 ft. vitrified clay pipe, 24-inch.
200 ft. vitrified clay pipe, 18-inch.
300 ft. vitrified clay pipe, 12-inch.
80 ft. iron pipe, 10-inch.
200 ft. iron pipe, 12-inch.

Plans and specifications can be seen in the office of the Highways Commission and blank proposal sheets can be obtained.

A certified check for $1,000 must accompany each bid.

A surety bond for an amount equal to the gross amount of contract shall be required of the successful bidder.

Proposals must be numbered and marked for which piece of work they represent.

The Highways Commission reserve the right to reject any and all bids.

H. G. SHIRLEY,
8-2t Balto. Co. Road Engr.

CONDUIT, BUILDINGS, FIRE ESCAPES.

Rochester, N. Y.

Sealed proposals suitably endorsed on envelope for Construction of Store House and Conduit, Bakery, Extension to Laundry, and for Fire Escapes on present Buildings at the Rochester State Hospital, Rochester, N. Y., may be sent by mail or delivered in person up to 3 o'clock p. m., Wednesday the 7th day of September, 1904, to the State Commission in Lunacy, at the Capitol, Albany, N. Y., when the bids will be opened and read publicly.

Drawings and specifications may be consulted and blank forms of proposal obtained at the Rochester State Hospital, or by application to G. L. Heins, State Architect, in the Capitol at Albany, N. Y.

Contracts will be awarded to the lowest responsible and reliable bidders unless the bids exceed the amount of funds available therefor, in which case the right to reject all bids is reserved.

Dated Albany, Aug. 19, 1904.

T. E. McGARR,
8-2t Secy. State Commission in Lunacy.

TELEPHONE SERVICE FOR THE CITY OF TORONTO.

Sealed offers will be received up to noon on
SATURDAY, OCTOBER 1ST, 1904,
for the installation and operation of a telephone business or service in the City of Toronto, upon terms and conditions which may be obtained from the City Clerk, City Hall, Toronto.

Each offer must be accompanied by a cash deposit, or a marked cheque payable to the order of the City Treasurer, for the sum of $5,000.00.

Any party failing to execute the necessary contracts to carry out his offer in accordance with the terms and conditions of the specifications will forfeit his deposit to the City.

OFFERS MUST BE ADDRESSED TO THOMAS URQUHART (MAYOR), CHAIRMAN OF THE BOARD OF CONTROL, AND SENT IN THROUGH REGISTERED POST.

The City does not bind itself to accept any tender.

THOMAS URQUHART (Mayor),
Chairman Board of Control.
City Hall, Toronto, August 20th, 1904. 8-3t

FILTERS AND RESERVOIRS.

Poughkeepsie, N. Y.

Sealed proposals, addressed to the State Commission in Lunacy, The Capitol, Albany, N. Y., will be received until 12 o'clock noon, August 31, 1904, for the construction of covered Masonry Filters, Pure Water Reservoir and Appurtenances, for the Hudson River State Hospital, at Poughkeepsie, N. Y.

Plans, specifications and form of bid may be seen at the office of the State Commission in Lunacy, Albany, and at the office of Allen Hazen, Consulting Engineer, St. Paul Building, New York. 8-1t

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HEATING, VENTILATING AND PLUMBING

Ames, Ia.

Sealed proposals will be received at the office of the Board of Trustees of the Iowa State College, Ames, Iowa, until two o'clock p. m., Sept. 7, 1904, for the heating and ventilating apparatus and plumbing for the Central Building. Plans and specifications may be seen at the office of the Secretary, Ames, Iowa, and at the office of Proudfoot & Bird, Architects, 712 Crocker Building, Des Moines, Iowa. Certified check for 5%. The right is reserved to reject any or all bids. 7-2t

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DRAINAGE.

Hackensack, N. J.

Sealed proposals will be received by the Drainage Commission, at the office of Mabie & Maidment, Union Banking Building, Hackensack, N. J., on September eighth, 1904, at 5 o'clock p. m., for the excavation and construction of a drain from the Pond at Cherry Hill to Essex Street, Hackensack, the approximate length being two and one-quarter miles and the approximate quantity of excavation 22,000 cubic yards.

Plans and specifications may be seen and blank forms of proposals obtained at the office of Mabie & Maidment, or at the office of Lemuel Lozier, Engineer, Union Banking Building, Hackensack, N. J.

The Drainage Commission reserves the right to reject any or all bids.

HENRY C. ADAMS, Prest.
CLARENCE MABIE, Secy.

The specifications may be seen at the office of Engineering News, 220 Broadway, New York. 8-2t

For other Proposal Advertisements see pages 35, 36, 37, of Advertisements and Construction News page 98.